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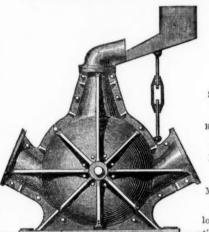


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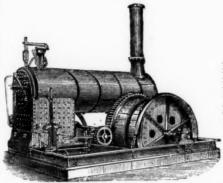
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HORIZONTAL STATIONARY ENGINES.
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THESE PATENT MACHINES ARE VALVELESS.

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Normandy Rock Drill and Air Compressor, bored

Inches. min. sec. $1\frac{1}{16} \times 10\frac{1}{4}$ in 2 10 Eclipse Rock Drill and Reliance Air Compressor $1\frac{2}{8} \times 10\frac{1}{8}$ in 2 25 nt Rock Drill and Sturgeon's Trunk Air

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Normandy's have WON TWO GOLD MEDALS at the Melbourne Exhibition, 1880, and being the simplest, ARE MUCH THE CHEAPEST in first cost and in repairs.

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THE BOWLING IRON COMPANY (LIMITED), BRADFORD, have made considerable additions to their STEEL WORKS, and are now in a position to EXECUTE ORDERS for STEEL and are now in a position to EXECUTE CASTINGS of almost any pattern and size.

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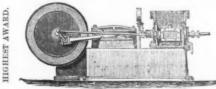
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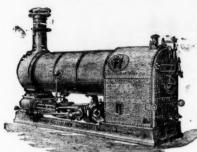
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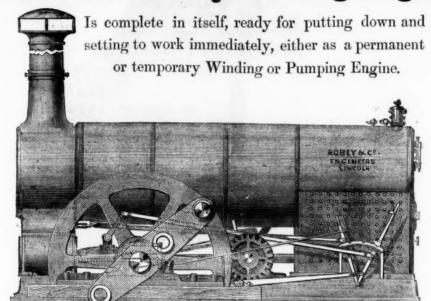


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TO COLLIERY PROPRIETORS, MINE OWNERS, &c.

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16 horse power.



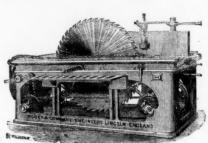
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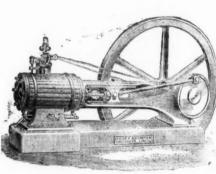


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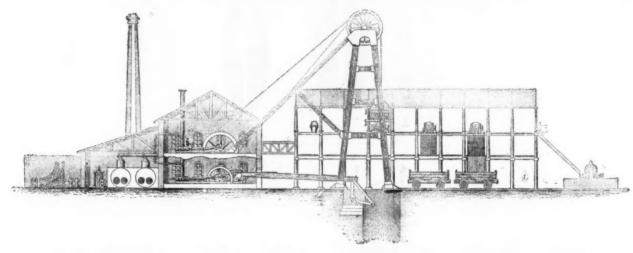


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WINDING, HAULING, AND PUMPING ENGINES; AIR COMPRESSORS; DIRECT-ACTING STEAM PUMPS; VENTILATING FANS; SEMI-PORTABLE BOILERS AND ENGINES COMBINED; PIT-HEAD PULLEYS; WIRE ROPES; WROUGHT-IRON HEAD GEAR, CAGES, and SCREENS; BOILERS; PATENT DETACHING HOOKS; COAL WASHING MACHINES; STEAM HAMMERS; STEAM CAPSTANS; PUMPS; VALVES.

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PATENT BRICK MACHINES for DRY, SEMI-DRY, and PLASTIC CLAY; WET and PERFORATED CLAY GRINDING PANS; CLAY ROLLS PUG MILLS; MORTAR MILLS; FRICTION HOISTS; PIPE-MAKING MACHINES; BRICK PRESSES; PATENT KILNS.

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CRUSHING AND AMALGAMATING MACHINERY.

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PATTERSON'S PATENT ELEPHANT ORE STAMPS.

IN USE IN CORNWALL, CALIFORNIA, BRAZIL, AUSTRALIA, AFRICA, AND INDIA. THE BEST MACHINE FOR PULVERISING

And other hard and refractory Materials. Particularly designed and adapted for transmission Abroad, and for Countries where Transport is a difficulty. Quickly and economically erected. Can be seen stamping Quartz near London.

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TWO GOLD MEDALS.

FOX'S PATENT

PARIS, 1878



The LEEDS FORGE CO., Ltd.

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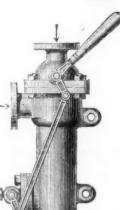
CORRUGATED FURNACE FLUES.

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Works equally well non-lifting or lifting. Can be made to lift 24 feet.

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Forces the water in the boiler considerably above boiling point, thereby increasing the durability of the boiler.

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es to places where it is at work will be given on application to-

Macadam Brothers and Co., BELFAST.

SOLID DRAWN BRASS AND COPPER BOILER TUBES.

FOR LOCOMOTIVE OR MARINE BOILERS,

MUNTZ'S OR GREEN'S PROCESS.

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Stamp Mills, Water Wheels, Steam Engines, &c. ROLLER SHELLS FOR CRUSHING MILLS—a speciality.

SPECIAL DESIGNS FOR EXPORT AND DIFFICULT TRANSIT.

Prices and particulars on application to the Manufactory, ABERYSTWITH, SOUTH WALES.

PATENT TUBULOUS STEAM BOI SAFE , ECONOMICAL , EASY TRANSPORT IN KNAP PATENT MECHANICAL APPLICABLE TO ALL KIND OF BOILERS & FURNACES - ECONOMICAL AND SMOKE CONSUMING. THE PATENT STEAM BOILER COMPANY BIRMINGHAM

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LOCOMOTIVES, AND OTHER ENGINES AND BOILERS LONDON HOUSE:-

NO 63 QUEEN VICTORIA STREET, LONDON.

JOSEPH FIRTH AND SONS' New Patent Brick-making Machine,

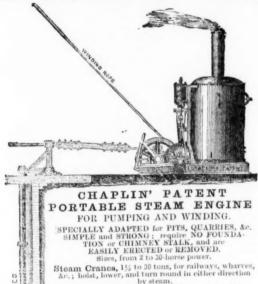
Embraces the following advantages—viz.:

Implicity, strength, and durability. Compactness and excellence of mechanica arrangements, large producing capabilities, moderate cost.

It makes two bricks at once, and will make 2,000 to 14,000 plastic pressed bricks per day, hard enough to go direct to the kiln without drying; or it will make the bricks thoroughly plastic if required. For works requiring a machine at less cost the machine is made to turn out one brick at once, and is capable of producing 8000 bricks per day.

The Machine can be seen at work daily at the Brickworks of the Patentees, JOSEPH FHFH AND SONS, WEBSTER HILL, DEWSBURY, and CROW-BURY BRICK WORKS, SUSSEX; as also their Patent Gas Kiln for Burning Bricks, which possesses the following amongst other advantages, viz.—Economy in Fuel, Rapidity and Quality of Work, even Distribution of Heat, and Total Consumption of Smoke.

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FOR PUMPING AND WINDING.

SPECIALLY ADAPTED for PITS, QUARRIES, &c. SIMPLE and STRONG: require NO FOUNDATION or CHIMNEY STALK, and are EASILY ERECTED or REMOVED.

Steam Cranes, 1½ to 30 tons, for railways, wharves, &c.; hoist, lower, and turn round in either direction by steam.

Stationary Engines, 1 to 30-horse power, with or without gearing.

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Portable Engine—Gold Medal.



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The Royal Agricultural Society of England have awarded Every First Prize to CLAYTON and SHUTTLEWORTH for Portable and other Steam Engines since 1863, and Prizes at every Meeting at which they have conveted since 1849.

GOLD MEDALS, AND OTHER PRIZES,

Have been awarded to CLAYTON AND SHUTTLEWORTH at the various International Exhibitions of all Nations, including LONDON, 1851, 1862; PARIS, 1855, 1867, 1878; VIENNA, 1857, 1866, 1873;

STEAM ENGINES, Portable and Fixed (For Coals, Wood, Straw, and every description of

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Catalogues in English and in all Continental Languages free on application.

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ESTABLISHED 1848.

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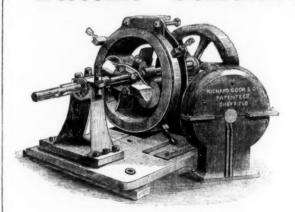
MANUFACTURERS OF



ALL KINDS OF SAFETY FUSE.

SILVER MEDAL (HIGHEST AWARD), MELBOURNE EXHIBITION, 1881, for "EXCELLENCE OF MANUFACTURE."

LUCOPS' Patent Centrifugal Pulveriser,



(Two tons per hour with 5 horse-power actual,)

For reducing to an impalpable powder, or to any requisite degree of fineness, all materials capable of being thus treated. CEMENT, CHEMICALS, GRAIN, COAL, COLOURS, PHOSPHATES, LIME, COPPER, TIN, ZINC, and other Ores with rapidity, completeness, and perfect uniformity.

THE ONLY GUARANTEED MACHINE FOR

QUARTZ. GOLD

This mill consists of a circular iron casing, the section being elliptical in form, and is fixed vertically on a firm bed or foundation plate, a shaft runs through the centre of the casing on which is keyed a series of arms, in the extremities of which revolve two or more slightly oblong iron rollers, which, when put in motion, fly off from the centre and run upon the interior periphery of the casing, and by centrifugal force crush and pulverise the article under treatment.

The effect produced by this system is most extraordinary in its practical results, the power required is small in consequence of the comparative absence of friction from the working parts of the mill, the combined results of the rolling action of the crushers and their impact by centrifugal force on the material, being the same in kind, but in degree far exceeding that of edge runners, the sides of the casing are formed as open wire sieves of the degree of fineness required, and a series of propelling blades attached to and revolving with the central shaft drive the material under treatment through the sieves as it is pulverised; by this arrangement the degree of fineness can with certainty be arrived at from coarse to extreme fine, and that with uniformity

Intending purchasers can at all times satisfy themselves by sending the material they wish to operate on, and seeing it pulverised. Over 300 in use. Prices and testimonials free on application.

RICHARD COOK & CO., ENGINEERS, SHEFFIELD.

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STANIAR AND CO., Manufacturers by STEAM POWER of all kinds of Wire Web, EXTRA TREBLE STRONG for

LEAD AND COPPER MINES. Jigger Bottoms and Cylinder Covers woven ANY WIDTH, in Iron, Steel, Brass, or Copper FXTRA STRONG PERFORATED ZINC AND COPPER RIDDLES AND SIEVES

Shipping Orders Executed with the Greatest Dispatch.



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Original Correspondence.

THE TIN TRADE.

THE TIN TRADE.

SIR,—The consumption of tin having overtaken and for the time fairly gone ahead of production, it becomes a serious question for consumers to consider the future position. Taking, firstly, the question of production we find on looking back the average quantity we receive from Australia amounts to 800 tons per month. It is a matter of surprise to many why with such large deposits of tin in Australia we do not receive more metal. The truth is the deposits of stream tin are nearly exhausted, and genuine mining operations have now to be resorted to obtain a sufficient supply. This it is needless to say takes both time and capital, and it will be several years before the Australian mines are fully developed. Work in Australia has recently been greatly hindered by the excessive drought, and consequently the supply from thence will be very much reduced for the next two months. Turning to the Straits we do not find the production there has materially increased for many years past. The total stock, Europe, America, and afloat was—

On 1st January, 1880, 22,536 tons,

On 1st January, 1880, 22,536 tons,

On 1st November, 1881, 17,772 tons, showing a decrease of stock since last January of over 3000 tons, We always receive a full supply of tin from the Straits between November and February, after which time the shipments fall off until the following autumn. This is accounted for by the fact that the Chinese cease working in February in each year. Unless, therefore, we have very large shipments from the Straits during the next three months, say to the extent of 2000 tons in excess of our actual requirements, or in other words unless we start in January, 1882 with 2000 tons more stock than we now possess, and the world's consumption goes on at the same rate as this year, by November, 1882, we shall have at least 4000 tons less stock than at the present time.

There is not much inducement at present to ship tin from the Straits to this country as the price there (owing to Chinese and American demand) is above

QUICKSIL VER.

JANUAR	RY TO	OCTOBER	(INCLUSIVE)

	DEFENDENCE TO OUT	OTHER CITE OF	THE RESTO	
		1880.		1881.
Export	Lbs	919,209		1,449,729
Export	Flasks, about	12,175		19,201
Import	Lbs	3,612,026		3,528,467
Import	Flasks, about	47,841		46,734
911 8 7	*	1 17 17		

The London imports are less, while the exports have increased out 58 per cent. since same time last year.

Great Tower-street, London, Nov. 8. JOSEPH BENNETT BROS.

OTTOMAN BANK SHARES.

SIR,—Those of the public who understand the true force of the recent announcement in the Daily News of Nov. I respecting the important bearing the Ottoman Bank is now assuming are evidently doing well, the shares having steadily risen to 19*l*., a point apparently far below their real value 24*l*., compared with other valuable securities more represents their value

ORDINARY MEXICAN RAILWAY STOCK.

SIR,—The observations you have from time to time permitted me to make about ordinary Mexican railway stock during the last four months receive wonderfully strong confirmation in Mr. W. Abbott's "Circular of Sound Investments" for November. He states "it was confidently asserted the ordinary stock would command a value of 1051." As the price is now only 997., cum dividend, "there is," he says, "very considerable margin of profit for those who purchase now, as on the basis of 8 per cent. dividend the stock would be worth 1101. to 1151."—Nov. 9.

MINING IN NEW SOUTH WALES.

SIR,—The few following extracts from Saturday's paper will serve to give a good general idea of how mining is again looking up with us at Temora. The best ground still appears to be in Deutscher's freehold, but all the golden claims are doing more than well:—

freehold, but all the golden claims are doing more than well:—
At Temora several prospecting parties started on Saturday to prospect new country. Hogan's washing went 10 dwts. to the load; Bourke and party finished their 1000 loads, which averaged 15 to 16 dwts.; 200 loads from Murray and party, prospectors, gave 8 dwts. to the load; No. 2 Deutscher's picked out 26 ozs. this week; Hidden Treasure picked out this week 561 worth of gold; 98 loads of cement from Knox's, Upper Temora, yielded 75 ozs.; No. 4, Deutscher's had another washing, which went better than the last crushing. The Frenchman's are now washing 1400 loads; first machines look very well. Mr. Wilkinson, Government Geologist, who inspected the upper town, speaks very highly of that portion as a reefing district. Mr. Wilkinson visited the deep lead, and thinks that the miners will get plenty of additional water and fresh leads in that direction. He believes there are rich claims in and about Deutscher's paddock; He get plenty of additional water and fresh leads in that direction. He believes there are rich claims in and about Deutscher's paddock; he also thinks well of Bourke's reef. The Speeler's claim washed four machines, which went respectively 4 ozs., 6 ozs., 17 ozs., and 20 ozs. The Frenchman's claim washed up three machines, which went well, one piece of 14 ozs. being picked out. The largest escort that has yet left Temora went on Wednesday; it took 4082 ozs. 10 dwts. 13 grs. The Amelia Gold Mining Company have struck rich stone.

At Copeland, hundreds of miles away in another direction, the reefing is looking up also. It is on this field that the Prince Charlie line is, which was so favourably noticed by Dr. Robertson in a former

line is, which was so favourably noticed by Dr. Robertson in a former letter. A correspondent writes—Messrs. Benjamin, Scott, Driscoll, and party, of No. 1, Centennial South, crushed yesterday for a yield of over 2 ozs. per ton; the prospects of the field are cally improving. The Hidden Treasure Company are raising a large quantity of stone, and intend again starting crushing shortly; the quality of the stone is first-class. Hidden Treasure No. 1 have struck gold, and hopes are entertained that the discovery will considerably enhance the value of this claim. The Town and Country are now crushing at Campbell's machine, with prospects of a good return to the shareholders. this claim promises of a good return to the snareholders. Centennial No. 1 north (Scott and party) have a large reef showing good gold. Hidden Treasure No. 2 (Bibby, Benjamin, and party) started this week with excellent prospects, with a large reef showing gold; this claim promises to be one of the best on the field. Prince Charlie (Brockwell and party) are crushing at their own battery; this claim has a large quantity of stone at grass, and anticipate returns when cleaning up equal to previous good crushings. No. 1 Prince Charlie Jones, Morgan, and party) are raising a large quantity of stone, and are waiting repairs to Rainbow battery, when they will start crushing; these two claims have a reef 3 to 4 ft. wide, and the stone looking well. No better field exists for the investment of capital than district, the golden area embracing an extent of upwards of

THE GOLD FIELDS OF MYSORE.

THE GOLD FIELDS OF MYSORE.

SIR,—The Mysore properties already before the British public are by no means the only ones worthy of their attention; and I may take this opportunity of referring to the Honnali gold fields, Shemoga district, which were favourably referred to by Mr. Deputy Commissioner Hill in 1878, and which have recently been carefully inspected and reported upon by Mr. Mervyn Smith, for Messrs. Watson and Co., of Madras. Mr. Hill states that the Honnali taluq may be described as a basin enclosed by a circle of low hills broken by only two considerable gaps, that by which it leaves it on the north. It is bounded on the north by Darwar (Bombay Presidency), on the east by Chittledroog district, on the south by Shemoga taluq and west the Shikapur taiuq. Its area is about 500 square miles and it has a population of about 66,000. The valley is drained by the Tungabrada, which traverses its eastern extremity from south to north, the drainage being toward that point from the north and the and it has a population of about 66,000. The valley is drained by the Tungabrada, which traverses its eastern extremity from south to north, the drainage being toward that point from the north and the south. Within the circle of hills the basin may be said to be made up of low swelling ridges, running north-west, and intervening valleys, all covered with a deposit of regur, or black cotton soil, varying in depth from a few inches to several feet. The rainfall is 32 inches annually, and the taluq receives a portion of each monsoon. The heaviest rainfall recorded in 1874 was 8.5 inches in May from the south-west monsoon, and 7.9 inches in October during the northeast monsoon. This distribution of rain throughout the greater part of the year is of very great advantage, as by this means smaller reservoirs, frequently replenished, would answer all purposes; while if the rainfalls were confined to but one monsoon larger and more expensive reservoirs would be required to store away the year's supply. With the exception of the south-west extremity the country is comparatively bare. Shrubs of small growth being found here and there on the hills. At Kumsi, in the south-west, is the State forest of that name, 16 square miles in extent, which yields large quantities of good teak, black wood, honne, matte, &c., so that there would be no lack of the best possible timber for all mining purposes, and within a convenient distance. The general elevation of the taluq is about 2100 ft. above sea level, the tops of some of the hills being 600 ft. higher. The hills to the south and east have a stratified appearance, being composed of a talcose schist, which at the tops of the ridges is indurated, and largely charged with magnetic iron. The sides of the hills are covered with loose angular pieces of hematite and iron-shot slate, broken off from the exposed surface of protruding rocks; these resist the action of the weather, and make

tops of the ridges is indurated, and largely charged with magnetic iron. The sides of the hills are covered with loose angular pieces of hematite and iron-shot slate, broken off from the exposed surface of protruding rocks; these resist the action of the weather, and make the hills difficult to climb. To the north and west the hills are not so high, are more rounded in form, and consist of quartzite and shales. In the basin beneath the alluvium, which is in some places as much as 30 ft. deep, there are beds and veins of limestone, in small nodules, overlying and running into the schists, which form the substratum. In no part of the taluq is granite to be found, nor have dykes of trap been observed. A few bands of gneiss and horn-blende schist are seen in the north and east.

Every part of the taluq is easily accessible by means of good roads, and from Shemoga there is a first class road to Bangalore (173 miles), and several to the western coast, 100 miles off. The system of railways sanctioned by Mysore, and now in hand, makes Typtur, a town 90 miles south-east of Shemoga, the central point from which branch lines will radiate to Bangalore, Mysore, Shemoga, and Sira, so that we may shortly expect to see a through railway communication with Madras. Woddars (professional miners), Lammanies, and Korachers are here found in great numbers, and so highly are they valued as labourers that large advances are frequently made by the coffee planters of the Kadur district to entice these people to their estates. Many of them, leaving their families behind, work on the coffee estates for six months, and then return to their homes. The wages of a man are Rs. 6 per month, and of a woman Rs. 3-8. Of course if work could be found nearer their homes they would gladly stay, so that labour at the mines would be abundant and cheap. As far as can be learnt, the gold region appears to be confined to the

wooden trough, about 4 ft. in length and I ft. square; the lower end is open, and across the bottom plank are fitted a couple of pieces of bamboo, about \(\frac{1}{2}\) in, deep, to act as ripples. When the dhonic is used the Julgar has two paid assistants (generally coolies) to help, one excavating the drift and the other pouring on water, while the Julgar himself manipulates the washing in the "dhonie," The rent paid to Government was always farmed to one individual, who subtes the rendered states of the rendered states let it at a profit, usually as much again as the Government kist, to the washers, of whom there were never more than twenty in this locality, so that by taking the average yearly kist paid to the Government as Rs. 300, double that sum (Rs. 600), or Rs. 30 per man, was paid by the washers to the contractor. This tax did not press heavily on the men, as they themselves allow that an average day's washing amounted to Rs. 2, and they could recken on sixty days washing throughout the year, during the months of May, July, and October, with an occasional washing during the other months.

The great drawback is the want of water, as the nullas merely

The great drawback is the want of water, as the nullas merely contain a little water for a day or two after heavy showers. Ten tanks were seen in this locality, but none of them are of any use, as 20 miles of country, and money is only wanted to make this place the same are breached and others silted in. With a small expenditure of New South Wales.

Some are breached and others silted in. With a small expenditure of money (but far more than the ryots could afford) most of these ing has proved to be suriferous. He does not mean by this selectanks could be repaired, and an unfailing supply stored up, as the tion that it should be inferred that the other localities where reefs

and gold are proving what the Carcoar district can do. M. Donald's claim, near Milburn Creek, has been sold to a party of Melbourne men for the sum of 18,000. It is also reported that several Blayney investors in other claims at Milburn Creek has sold out to the same party at very high figures. An escort has arrived at Blaney with the following quantities of gold.—On account of the City Bank, Carcoar, 499 ozs. 3 dwts.; on account of the Commercial Bank, Carcoar, 499 ozs. 3 dwts.; on account of the Commercial Bank, Carcoar, 499 ozs. 3 dwts.; on account of the Commercial Bank, Carcoar, 499 ozs. 15 dwts. 20 grs.; and on account of Brown's Creek Gold Mining Company, as the result of four week's work, 293 ozs. 4 dwts. Mining Company, as the result of four week's work, 293 ozs. 4 dwts. Which has been looking over the field, states that the district is one of the richest benedically the state of the richest benedically the state of the richest benedically and provide the district with ample crushing plant with latest improvements. Crichton and Co.'s 25-head stampers crushing plant is en route to Milburn Creek. During the last fortnight 2175 acres of land were selected at the local lands office.

At Blayney, Marsden's copper lode has been further tested by competent miners. The last assay, a few days back, yielded 33 per cent.; the width of the lode is 18 ft.; this mine is expected by the best of judges to turn out one of the richest copper mines in the colony; it is within four miles of this copper lode that the Brown's Creek Gold Mine is, which has the only 50-head battery in this colony, and which would be fireful, the late Rev. W. B. Clarke, F.R.G.S., stated to be originally a boiling spring. In the adjoining farm there is also a large gold-bearing dyke and deposit, a black in the real way and the decent of the underlying atta, generally a talcose social. Comparatively little of the affordure that the device to what is most readily got at, and this forms but the merest for the underlying dyke and deposit, a black i

seives to what is most readily got at, and this forms but the merest fraction of the suriferous deposit, so that they have here a speedy means of getting good returns.

The general direction of the reefs is north 40° west, south 40° east, varying from that point to due north and south, and in a few instances to east and west, as noticeably the large reef of Sogl and a similar one at Kencheckop. The easing in most instances is a talcose schist, of a light buff colour, and occasionally charged with cholivor. On the bills this schist becomes indurated and vitrified, and associated with brown hematite and magnetic iron and the laminae, are not to be easily recognised. The reefs hade to the cast at different slopes, according as they are seen on the top of a hid, or in the valleys, and selicin keep a uniform slope for any depth. The strike is generally with the foliation of the country rock. The Monarch reef, so called from its size, is first distinctly observable from its outcrop, about one mile south of Chetuhullee. Here flie quartz is of a blue-black colour and extremely hard. It is highly crystalline, the crystal being aggregated in no particular order, nor are they of the same size. Following the nulla which runs north east from Cheturhullee, we cross several reefs of white quartz, varying in thickness from a few inches to as many feet. All of these are more or less cavernous, and chiefly so at their lines of junction with the casing. This a most favourable indication, and at once distinguished it from the dense, compact, non-metalliferous quartz, as it is this honey-combing to which the name "mice-eaten" has been given by miners, and is considered as one of the best signs of the quartz not being sterile. About half a mile north of Pulwanhullee is Harris reef. The outcrops of this reef may be traced for several miles from the low hills to the east of Pulwanhullee, along the norther nace of Geignanhull, and on to Kodrikonda. It is lost in the low ground to the north of Salwal, but is seen again on the mound betw

so high, are more rounded in form, and consist of quartzite and shales. In the basin beneath the alluvium, which is in some places the colour is almost blue-black; a small show of gold was shales. In the basin beneath the alluvium, which is in some places the colour is almost blue-black; a small show of gold was small shales, overlying and running into the solits, which from the substratum. In no part of the taluq is granite to be found, nor have dykes of trap been observed. A few bands of gneiss and hore blende schist are seen in the north and east.

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The colony of Julgars, or professional gold washers, formed in produce in the south-east to Belgotee in the north-west, a plat to the revenues of the State for the exclusive right to wash for gold in the above tract their in the records of Government to throw any light on this subject.

The colony of Julgars, or professional gold washers, formed in produce in the south-east of belgotee in the souther-east of Government to thro

Near Aroondee several reers were observed, the largest, named Giant Reef, being quite 50 ft. in width; this reef runs east and west, and outcrops strongly on the top of a low ridge to the north of Aroondee. The quartz is hard and white, and is seen in massive blocks covering the whole hill for about a mile. The casing is a species of quartzite, known in this country as the Cuddapah quartzite; it shows but little signs of stratification, and weathers into a coarse earth. Several other reefs worth working were also met with, but enough has already been written to given an idea of the character and wealth of the district.

and wealth of the district.

In his concluding observations Mr. Mervyn Smith states that he is of opinion that the richest land would be included within a parallelogram, having Kodrikonda and Soorhona on the north-west, and Pulivanhullee and Dasurhutee on the south-east. This would include all the workings that have been observed, as well as the richest native

have been observed are not auriferous, but merely that he has not had the time to prove them to be otherwise. He would most strongly urge that a trial be made of hydraulic jet-sluicing, or any other system of alluvial working, as from what he has seen of the country he is inclined to believed that this will be found remunerative in the first instance, while shaft sinking, erecting of machinery, and other preliminaries of quartz crushing were in progress. With abundant preliminaries of quartz crushing were in progress. With abundant and cheap labour, an unlimited supply of fuel and timber, good communications, and, above all, an auriferous out-turn, placed beyond the region of probability by actual results as shown in independent official records, as well as tests carried out by him, he sees no reason why the Honnali gold fields should not be reckoned one of the most promising in India.—Bombay, Oct. 12.

H. C.

THE SOUTH AFRICAN DIAMOND FIELDS.

-My attention has been drawn to several references in the SIR,—My attention has been drawn to several references in the Journal regarding mining companies in this territory, and diamond industry generally. The statements are so misleading and contrary to fact that not even persons acquainted with the country could derive any knowledge of the real position of its affairs, while those ignorant of it would be perfectly puzzled. To show how erroneous the statement to the effect that the industry does not pay is I enclose a statement and report presented vesterday by the directors of the a statement and report presented yesterday by the directors of the British Diamond Mining Company (Kimberley Mine) to the share holders,* from which it will be seen that they declare 15 per cent dividend for the quarter (equal to 60 per cent. per annum), carry 9044. 9s. 6d. to the reserve fund, and 12404. 9s. 6d. to next quarter's profit and loss account—making their net earnings over 17 per cent for the quarter. It will be observed, also, that they have 4250 loads for the quarter. It will be observed, also, that they have 4250 loads of diamondiferous soil and 900 loads lumps, equal to 5150 loads of 16 cubic feet, already hauled out of the mine, and deposited on the floors to undergo the process of washing, and that during the time from Oct. I to making the report, which was on Saturday, Oct. 8, they found diamonds to the value of 4000*l*., being at the rate of 500*l*. per diem. I may state that while the soil is being washed the hauling by no means ceases, so that as it is washed the depositing floor is refilled; there is, therefore, a constant supply, unless something unforseen happens to prevent hauling from the mine, which is over 300 ft. deep. If you would kindly publish this report I, as one of the shareholders, would feel greatly obliged to you, as I am sure it would disabuse the minds of the readers of the Journal of any false impressions current through erroneous statements. sions current through erroneous statements

sions current through erroneous statements.

The notable mines in this territory (Griqualand West) are—1, Kimberley, containing 800 claims of 30 ft. square, equal to 720,000 square feet; 2, De Beers Mine, containing about 700 claims; 3, Dutoitspan Mine, containing about 1600 claims; and, 4, Bultfontein Mine, containing about 1000 claims. The claims were originally the property of private individuals, and were worked separately; but very recently amalgamations have taken place, and companies duly registered according to law, limiting the liability of shareholders to the water economics. the value of serip—formed with the view to the more economical working of the ground, which varies in quality of richness according to the locality, and in many instances according to the depth of the claim ground, for it has been proved that the deeper the miner digs the richer does his ground become. I do not wish it to be thought that every company formed has been successful in its operations—far from it: many of them have had so many difficulties to contend far from it; many of them have had so many difficulties to contend far from it; many of them have had so many difficulties to contend against that their prospects have become gloomy, but everything depends upon the management. It has happened that a change of manager and overseers has brought about quite a cheering result over the previous mismanagement. The four mines are all situate within a radius of 1½ mile; but diamonds are found far and wide in more or less numbers. Prospecting for payable diggings is going on at all points of the compass, and although diamondiferous soil which compares favourably with the established mines is found in many places far and near, and new diggings are opened by Government proclamation, causing some excitement for the time being, the result is always the same—that the ground is of good appearance, but without containing the precious stones in sufficient numbers to but without containing the precious stones in sufficient numbers to warrant the expenditure for the necessary machinery to work This in itself is sufficient argument against the allegations that of monds will become as cheap as garnets, and it is an admitted fact that since the discovery of the South African fields their price has never been so good as at the present time; and I do hope that the dividends anticipated by many of the companies will be realised, and our country will advance in the good opinion of the European peop in proportion.

J. J. GEO. RHODES. in proportion.

Kimberley, South Africa, Oct. 11.

THE SOUTH AFRICAN DIAMOND FIELDS.

SIR,—On Friday last there were rumours of a rich discovery of gold having been made about 40 miles from Kimberley. Many persons had actually seen handsfull of nuggets, and men whose integrity was supposed to be unimpeachable pronounced them to be the richest gold fields that have been found during the present century, and declared that nuggets of gold were found adhering to the roots of the shrubs. Anxious to get a small footing in the new El Dorado, and a few tons of the precious metal, I lost no time in company with and a few tons of the precious metal, I lost no time in company with a friend in rushing off to the spot. Our horses being about the best in the neighbourhood, and our trap very light, we soon passed every conveyance we saw on the road; consequently, we had very little doubt but that we should return with at least several hundredweights of the precious nuggets. On our way we passed the Caput mortuum of the Frankfort Mine (?). There are several abandoned pits to be seen; but since Mr. T. C. Kitto reported on this property every person has abandoned the concern, as Mr. Kitto states there is not the remotest chance of finding diamonds there, and the other persons who reported on it are not mining men. After a pleasant drive we who reported on it are not mining men. After a pleasant drive we arrived at Boshof at about 10 P.M. We soon retired to bed, but not to sleep. We were haunted by visions of big lumps of gold, and in the morning we were natured by visions or big lamps of gold, and in the morning we were the first up, had a hasty meal, and inspaned. If the son of Nimshi ever drove faster than we did all I can say is he must have had good horses. About an hour brought us to the gold-producing roots of the shrubs; but, smart as we had been in getting to the place, we were equally smart in getting away again—and if ever I felt an inclination to curse the manufacturers of mines and promoters of sham rushes it was on this cogsion. There is not and promoters of sham rushes it was on this occasion. There is not

and promoters of shain rusnes it was on this occasion. There is not the slightest probability of finding gold in the place.

I am pleased to notice that the Barnato Company, in the Kimberley formation, has paid a dividend for the quarter of 9 per cent.; but I am afraid they will get no dividend for the next quarter, as the reef is caving in, and has already buried some of their ground. The British is likely to pay 15 per cent. for the quarter; but those claims will soon be covered with fallen reef also. I do not know of any other company likely to pay a honest dividend. The British claims will soon be covered with tauthouse dividend. The British any other company likely to pay a honest dividend. The British Company have 123 claims, and the Barnato 44 claims, out of a total table Kimberley formation of 416. Taking the companies in the Kimberley formation in the aggregate the present quotations of shares are much above their true value. In fact, I strongly advise European capitalists to have nothing to do with these companies, unless at the same time they have the management or a large portion of it. There is really no fault to find with the productive character of the mines, but the management is ruinous in the extreme—or rather the miss-management. If nearly half of the shares of a company are held in England and the remainder here it is likely to pay the local shareholders to keep the concern going, while the foreign holders may be losing heavily, because the yield is absorbed in extravagant management, and situations are made for friends whether they be required or not. Just imagine a company in England, with a mine 150 ft. square, paying one manager in the claims 1500l. per annum, and another (the captain dresser) also 1500l. per annum, with a score or more overseers and clerks, cashiers, and brokers in proportion.

Another great drawback to the Kimberley Mine is the dangerous and insecure sides of the mine, which are ever caving in and burying the diamond-producing soil, and this will always be insecure until the sides are sloped down from the surface to the increase were

until the sides are sloped down from the surface to the igneous rock at an angle of 45°. In Mr. T. C. Kitto's report to Col. C. Warren, in 1879, it was shown that to secure the sides of the mine as I have

* The details of this meeting appear in another column of this day's Journal.

described it would cost 800,000l.; but the subsequent rise in the price of labour proves that that sum was below the mark, and, not-withstanding the work performed since that time, it will even now require 800,000*l*. to make the Kimberley Mine secure and in proper require 800,000. to make the Kimberley Mine secure and in proper working order; add to this 200,000. for loss in not being able to work claims on which taxes are regularly made for two years, and the sum of one million sterling will be a fair deduction to make from the present quoted price of the whole of the Kimberley Mine. In arriving at the above estimate I have placed the price at a medium rate; but, if I were to base my calculations on the amount charged by the Central Company for taking out the water, the mine would be far from solvent. I am here reminded to ask a question—Supposing any company here were to declare a dividend of 12 per cent. while owing 100.000. which was not accounted for in the balancewhile owing 100,000? which was not accounted for in the balance-sheet would it be a correct commercial transaction? There is another point to which intending investors should pay attention— the permanent character of the Kimberley Mine. In all dividend-paying mines with which I have been connected the market value of the mine is regulated entirely by the amount of reserves which can be preserved to stack and estimated to a picety, whereas in the be measured, tested, and estimated to a nicety; whereas in the Kimberley Mine there are no reserves whatever, and the only thing intending investors have to examine is the mere surface of the deosit, which may cut out at any moment,

It is true Mr. Thomas C. Kitto, in his official report on the Kimerley Mine, said—"I believe the diamond deposit of the Kimberley Mine will continue much deeper than any person of the kimoertey Mine will continue much deeper than any person of the present generation will care to follow it." But this is only the opinion of one practical mining man; there was not even a trial pit in the diamond formation on which he could base a calculation—consequently, setting aside Mr. Kitto's opinion, there is no evidence that the whole of the diamond formation will not cut out in the next 6 ft. in depth, and the whole two and a-half millions of capital be represented only by hard baryon rock. I do not say that such will be the case. y hard barren rock. I do not say that such will be the wish to place matters in their true character for the b of the mining public, and to caution them against being led into mines that are deep, dangerous, and extravagantly managed, while there are new mines in the neighbourhood which contain all the elements of success, and into which an interest can be purchased at reasonable rates. Even in the purchase of new mines investors should be cautious, and get the opinion of some honest person, because I have reason to believe that some of the greatest swindles of the age have been perpetrated here under the name of new mines. I notice that some person from here writes to the Journal assuming certain things; of course, assuming they get dividends, the natural assumption is they have been carned from the mine; but it is a notorious fact that managers of companies who assume so much never pay dividends, and have generally to support a fictitious reputation

y underhand means.
Yesterday the mining board held one of its usual weekly enter tainments, at which there were nine members. The entertainment commenced by a short prelude, in which all the members took part afr. Olson then accused Mr. Bottomly of gross perjury, and several members gave each other the lie direct. After four hours of recrimembers gave each other the he direct. After four hours of recriminatory discussion the entertainment concluded by a resolution to appoint a short-hand reporter to the board. There is not much hope of the prosperity of the Kimberley Mine until this august body becomes defunct.—Kimberley, Oct. 12. CORRESPONDENT.

SANTA CRUZ SULPHUR AND COPPER COMPANY.

SIR,—Some time ago the directors sent a circular to the share-holders giving the result of a cargo of ore from this mine, intimat-ing at the same time that the analysis was not up to their expectaing at the same time that the analysis was not up to their expectations. Since then we have heard nothing from the mine. Copper is
rising in price; the shares of Mason and Barry are in demand at
18½; the Rio Tinto, 26½. The Santa Cruz at 50 per cent. discount,
with nothing doing. As my brother writes—The prospectus states
that "the result of tests from a cargo of ore raised from the Santa
Cruz mines and sold shows that it is of a similar character to that
of Rio Tinto, Tharsis, and Mason and Barry." If so, why the serious
depreciation to Santa Cruz shares? depreciation in Santa Cruz shares ?

THE SOSA-Y-MENDEZ GOLD MINING COMPANY.

SIR,-Some months since we were called upon to pay upon the SIR,—Some months since we were called upon to pay apon the allotment of these shares, since which time we have been kept in the dark as to the doings of our directors. No application has yet been made to the Stock Exchange for a settling day, so it behoves shareholders to look into the dispute with the Callao-Bis Company,

and combine for the protection of their own interests. A SHAREHOLDER. THE EUREKA (NEVADA) SILVER MINING COMPANY.

SIR,-In last Saturday's Journal I noticed the letter of "W. E. B., who seems to be in doubt as to whether there is such a mine in existence as the above. If he will say whether he is a shareholder or not I can tell him whether the fool or the knave predominates in his perturbed nature. -Nov. 10.

EUREKA (NEVADA) MINING DISTRICT.

SIR,-I beg to hand you my usual budget of news received from this mining centre:

At no time in the history of Eureka has the general mining outlook of the district hear so favourable as at a present.

istrict been so favourable as at present.

New mining strikes in this district are becoming quite common.

In the past nine months Eureka Consolidated has paid \$250,000 in dividends, at the Richmond Company \$375,000.

During the past year \$3,983° tons of ore have been reduced at the Eureka Conslidated Mining Company's furnaces, including 3069°4 tons of custom ore; 777 ft. of drifts have been run and 1081 ft. of raises and winzes. The principal ortion of the ore extracted from the mine was taken from the 8th and 10th humbers.

crs. reports from the Eureka Tunnel continue to be very flattering. When ners left work last evening the breasts looked stronger than at any time is, and the character of the ore of the same richness as that first encoundable to the Eureka Consolidated es, and another shipment will be made as soon as the sacks can be protein to do the the theorem of the theorem of the cour mining enterprises.

ng our mining enterprises. Peral parties visited the Eureka Tunnel bonanza yesterday, and pro the realing for \$300 per share.

Eureka was found in the animonal last Tuesday. He considers it the most important mining discovery of the year and says "there's millions in it."

From present appearances there is no likelihodd of a coal famine at the Rich mond and Eureka furnaces the coming winter. Both companies have a splendic

and and Eurela furnaces the coming winter. Both companies have a splendid apply on hand, and more coming in daily.

An immense supply of wood has been stored in the basin at the mouth of codwin Canyon. It is said to belong to the Richmond Company.

Superintendent Rickard of the Richmond, and Manager Dowlin of the Ruby and Dunderberg, will leave for London about the first of the coming month.

The new Consolidated works are booming up like a promontory, and are visible

r miles down the read. Work in the Centennial Mine will be started up this week under the superin-ndency of Jack Kermeen. John Callagher expects shortly to commence work upon the Josephine Amy aim on Adams Hill.

daim on Adams Hill.

Superintendent Robinson, of the Bay State Mine, arrived in town yesterday.
For reports the mine as looking well, and says he has just let a contract for hauling 100 tons of ore to the Richmonds works.

Active mining operations are being carried on at the Bowman.

The Monument Tunnel Company, while working at the opening of their new unnel site, yesterday struck an immense body of galena ore. As yet there have seen no assays made oi it, but the indications are that it is a rich find. It is eldom that a tunnel enterprise starts out with such encouraging prospects.

The Irish Embassador Mine at Secret Canyon is turning out some very high rade ore.

The ITISH Educassación actic a base.

The Eureka Tunnel Company have made several shipments of ore the past week to the Ruby and Dunderberg works. They will soon make daily shipments. About 40 tons of high grade ore have been shipped from the Eureka Tunnel to he Ruby and Dunderberg reduction works this week.

The Ruby and Dunderberg works were again started up early yesterday moraling, and are running nicely.

John E. Jones and others have been adjudged by the Court the sole owners of the Enterprise Mine on Prospect Mountain, and will immediately start work

If the Enterprise a line of the Silver Connor Mine.

Good ore is coming out of the Silver Connor Mine.

John Huebner informed us yesterday that his new find on Prospect Mountain in more as development is made.

Large quantities of custom ores are daily being delivered at the reduction works.

Superintendent Strong, of the Geddes and Bertrand, has completed the grange for the new mill, and is now ready for the carpenters.

Large shipments of ore continue to arrive from the Geddes and Bertrand Mine to Sacret Canyon.

ng for the new mill, and is now ready for the carpenters.

Large shipments of ore continue to arrive from the Geddes and Bertrand Mine
t Secret Canyon.

The Geddes and Bertrand Mine continues to send in large quantities of ore London, Nov. 9. RUBY HILL.

MINING IN NOVA SCOTIA.

SIR,-The long interval which has elapsed since I last wrote you as to the condition and progress of mining affairs in this province of Nova Scotia is mainly due to the difficulty, mentioned in former letters, of procuring information from the source whence it ought to emanate—that is, from the office of the Provincial Department of Mines. There is, as is natural to expect, a prevalent disposition among miners themselves to maintain silence as to their own doings and prospects, except where they have an especial object in acting otherwise. To the Mines Office, however, they are by law required in effect to apply for the right to mine at all, and, except in a very few localities, for the ground upon which their operations are to be carried on. They are further required to make to that office, under oath, monthly and quarterly returns of the results of those operations. Were their requirements of the law duly enforced, and were the returns thus received carefully tabulated and published, as was the case in former years, we should, at the termination of every calendar worth, or a the farthest of every capturer, have available for our in case in former years, we should, at the termination of every calendar month, or at the farthest of every quarter, have available for our information at least a close approximation to a correct statement of what had been effected during the period under review. As it is, there are many rumours afloat that the law is not strictly enforced, or is administered with greatpartiality. Unfortunately these rumours are not without foundation; but as to what extent they are well founded I am unable to say. Then, as to official information. The Mines Department only deigns to make utterance to the public once a year—that is, when some time after the meeting of the Provincial Legislature, usually in March or late in February, the Commissioner Legislature, usually in March or late in February, the Commissioner of Mines makes his report for the year ending with the preceding December. Thus, like others in pursuit of knowledge as to recent mining affairs in this province, I have been under the necessity of pursuing that knowledge under difficulties. Still, an exceptionally intimate acquaintance with the various mining districts and the men experting in them has afforded me rather exceptional opportunities. operating in them has afforded me rather exceptional opportunities of acquiring such information. On the other hand, that information is necessarily of a general character. I can scarcely venture upon

With these deprecatory intimations I may say, then, that during the past spring and summer, and thus far in the autumn, there has been much activity in our gold districts. I mean that the activity is great as compared with that of several previous years, and that this assertion applies to most, but not all, of such districts. I believe that this activity will show a proportionate result in the year's product of the precious metal. Still, in this respect my anticipations may not be realised, as I have already had to admit in a former letter that they were not, for the year 1880. I have said that this marked activity has not characterised operations in all the mining districts. It happens that it has been less observable in those wherein mining was in former years carried on upon comparatively a large scale, and with the most noted success. But this fluctuation of speculators and operatives, back and forth from one mining field to another, has allways been a characteristic of gold miners, not only in Nova Scotia, but everywhere else where such people are found. Among the liveliest districts thus far during this current year have been Montague and Caribou, both in the eastern section of Halifax county. In the latter especially, and at Moose river, in the immediate vicinity of Caribou, the successful activity exhibited during the season seems to ensure large operations for years to come. During the same period Tangia large operations for years to come. During the same period Tangia—where first gold was mined in Nova Scotia, but since had many ups and downs—has been experiencing a revival of prosperity. The same may be said of Renfrew, which had become quite lethargic. Most of the other districts have shown a fair degree of activity as com-pared with the operations of previous years. An exception, however, must be made in the case of Sherbrooke and Wine Harbour, which but more especially the former—have been noted in all former years for the extent and productiveness of their mining works. Still, I am far from anticipating that the dulness which during the current year har reigned in these two districts, as also in the neighbouring one of Stormont, will prove to be of long continuance. On the contrary, I have every reason to believe that they will at no distant day become more famed and more justly famed as auriferous fields than they have ever yet been.

I must say a few words as to recent discoveries and of new gold I must say a rew words as to recent discoveries and of new good fields being opened up. The partial revival last spring of the gold excitement of long previous years has led during the ensuing months to a good deal of prospecting. This led, as a matter of course Lunst say, to various discoveries of gold in previously unsuspected sites, and to the development of paying lodes where gold was previously only into the same process. just known to barely exist. Among the most important and promising of these exhumations, I will only mention those of Chizzet-cook and Killag. Chizzetcook is a settlement lying directly upon the Atlantic Coast, about 18 miles to the eastward of Halifax. Its inhabitants coass, about 18 lines to the easward of Indiana. Is inhabitants are exclusively Acadian French—a relic of the old population which dwelt hereabouts when Nova Scotia was still under French domination; and, by-the-bye, there may be seen to-day, although so near the provincial capital, with its modern fashions, the same old costumes which were worn in Normandy and Brittany over 200 years since. Well, almost in the heart of the settlement—I might almost call it are extended village. Of Chipmenton's and close by the see shore. call it an extended village—of Chizzetcook, and close by the sea shore, exceedingly rich auriferous quartz veins have been discovered. Again, Killag is the name of a branch of the east river of Street Harbour. Killag is the name of a branch of the east river of Street Harbour. Along this stream and near the boundary line between the counties of Halifax and Guysborough, important gold discoveries have been made. I have not been upon the spot myself, but I have seen a large and very fine collection of specimens from there; and, judging from their exceeding richnoss, from the appearance of the enclosing quartz, and from what I am credibly informed are the dimensions of the auriferous lodes, I have no hesitation in saying that the Killag, like Chizzetcook, must soon rank among the most productive gold districts of Nova Scotia. I believe that in former letters I have mentioned as an illustration of the accessibility of all Nova Scotian gold ioned, as an illustration of the accessibility of all Nova Scotian gold tioned, as an illustration of the accessibility of all Nova Scotian gold deposits, that there is no spot in the province which is more than 30 miles from navigable water, whilst few places are even so remote from the seaboard. The site of these Killag discoveries is far within this distance – indeed, I believe it is only about 15 to 20 miles from the sea side, yet with one exception it is the most remote from navigd from cattled country of any Nova Section gold min The exception is the district of Fifteen Mile Stream, itself only a few miles westward of the Killag. I must not omit to say here that the few—and unfortunately only a few—enterprising and persevering men who for years past have been toiling at this Fifteen Mile Stream under disadvantages which are exceptional in the Nova Scotian gold

diclds, have this year been reaping a rich reward for their labour.

Whilst referring to new discoveries I must not omit to mention those of Salmon river, almost at the extreme eastern limit of Halifax ounty, and in about the longitude of the Killag "find," although outhward and quite near the Atlantic shore. The openings made here during the earlier part of the season revealed gold deposits which in richness and apparent extent have not been surpassed, even if equalled, by any elsewhere in the province; but unfortunately the principal mine has become the subject of itigation, which has thrown a spell over the mining works. Thus regarding our auriferous regions throughout, there seems no reason whatever to doubt that Nova Scotia may again soon attain—nay, far surpass—its former prosperity in gold mining. I have myself no doubt of its speedily attaining that and unless the honest efforts of enterprising men become hopelessly paralysed through official incapacity and wrong-headedness.

In the autumn of 1880 there was held in this city a Provincial Ex-

hibition of Works of Industry, &c., of which I think I sent you some account, noting its special poverty in the mineralogical department.

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This year, during the last two weeks of September, we had here not merely a provincial but a Dominion exhibition, and the second of its kind, which are hereafter to be held yearly, changing from one province to another. Although avowedly a Dominion affair, by far high greater number of exhibitors were of the three maritime provinces, whilst those from Nova Scotia alone more than equalled all the others. This can be no matter for surprise when it is remembered that from the most castern shore of Nova Scotia to the most extent towns of sottled and cultivated Ontario—sould be continued to the most of the state o

GOLD MINING ASSOCIATION OF CANADA.

GOLD MINING ASSOCIATION OF CANADA.

SIR—I notice in last Saturday's Mining Journal that Mr. W-Moodie, of South Frances, contributes a note respecting the Gold Mining Association of Canada. Mr. Moodie is doubtless well acquainted with the subject of which he treats, but as I observe my name mentioned in his letter I beg that you will kindly allow me the opportunity of removing any wrong impression caused by the letter from me which you were good enough to insert on a previous occasion. I have only to say that personally I have no knowledge of, or acquaintance with, either Mr. Humphrey or Mr. Chapleau, nor have I ever visited Canada.

of, or acquaintance with, either Mr. Humphrey or Mr. Chapleau, nor have I ever visited Canada.

My information, which I communicated to you, was, however, derived from so reliable a source that it seemed to me a public duty to make it known through the medium of your valuable periodical. Publicity of facts would appear requisite when failure in prospectus promises has been made. Such a course is the only one open, in order to warn those who might otherwise suffer from a repetition of over sanguine estimates of profits to shareholders.

Du Loup.

London, Nov. 9.

GOLD MINING ASSOCIATION OF CANADA.

GOLD MINING ASSOCIATION OF CANADA.

SIR,—I have read Mr. W. Moodie's letter dated Oct. 18, appearing in last week's Journal. I presume Mr. Moodie is an official of the Canada Gold Company. Mr. Humphry has evidently roused a "homet's nest" about his ears. I am glad I have not the pleasure of his acquaintance. I have a strong objection to people who fall into "hot water." I am much obliged to Mr. Moodie for his somewhat patronising remarks about my letter.

Although I have never been in Canada, and do not know any of the gentlemen who have been connected with the Gold Mining Association of Canada, I can assure Mr. Moodie that I am, probably, kept as well informed as he is about the proceedings on the property of the Association. In conclusion, I cordially hope that the promises held out in the prospectus of the Association will be realised. Appearances so far do not seem very bright, at least such is my opinion.—London, Nov. 8.

OBSERVATEUR.

THE DON PEDRO MINE.

SIR,—The few but pregnant words on the Don Pedro Mine of your Brazil correspondent of Oct. 29 give a good hint as to how things are going on at the mine, and now to cap that comes an extract in atrocious English from the "mine engineer," published in your same issue of Oct. 29, in all good faith by the office, with the approval (save the mark) of the consulting engineer of the company, giving vent to a new discovery in hydraulics, to which I respectfully call the attention of all hydraulic engineers that on purping the water a attention of all hydraulic engineers that on pumping the water a certain depth in the shaft of the mine the water in the galleries, &c., assumed an inclined position, and so rushed with increased velocity assumed an inclined position, and so rushed with increased velocuty to the main outlet, thus keeping the level of the water there constant for a time, while the engine was all the time really forking. This is a specimen of the engineering knowledge and skill that may have been one cause of the ruin of this most unfortunate company. I now ask the administration and the consulting engineer if it is not just possible that the fact that the engine can drain no deeper is owing to carelessness in not making the proper calculations in the case, and that the engine has reached the limit of its power to ruise water, and that the engine has reached the limit of its power to ruise water, and

must have assistance. And now you Don Pedro shareholders, the most dooile flock of sheep-that ever flocked to a meeting, are you going to allow all the late capital subscribed to go the way the rest has gone in useless wages, unless you move in time and insist in the small amount of money in hand being spent in buying additional pumping power, getting independent advise if possible. More capital will certainly be asked for, if not subscribed the threat that has been uttered will be put into effect. Some men who know the mine will wind-up the company, subscribe a small sum, put up proper engine-power and pump out the mine, and get gold in as many months as you have waited years.

Can you support longer an administration that has spent 50,000%, in pumping eight years, and can only show a mine full of water, a broken down worthless wheel, a new engine, a pet hobby equally useless costing less than 2000%, and that is all, the rest, 48,000%, in wages absolutely. Cannot such facts before you rouse you to alter this state of affairs. Look at the price of the shares, shares of a mine known to be good, and amply supplied as you think with machinery. Can anything be more significant of the estimation the present administration, not the mine, is held in by outsiders, an administration that would wreck any mine no matter what sum you subscribe. Has hope deferred, or the continued pumping that has gone on for years washed the spirit out of you that you dare not move? If you do not, or do not do so early, there is nothing but ruin before you, and that early next year. I have subscribed my proportion of each new issue and more, but I shall do so no more. I see it is hopeless, the administration is too bad altogether.

A Don Pedro Shareholder.

YORKSHIRE COAL TRAFFIC TO LONDON.

YORKSHIRE COAL TRAFFIC TO LONDON.

SIR,—Your Barnsley report in Saturday's Journal states—"It appears Mr. Thompson's scheme for the supply of London with inland coal has fallen through for some cause unexplained." As the ground was never financially broken by the combined coalowners matters remain in perfect abeyance, or rather in a chaotic state, as I certainly do not consider I can consistently manipulate the initiative more than I have done. It rests with the combined coalowners, bankers, &c., to come to the front. The metropolitan coal trade has undergome a considerable change with the Marquiss of Londonderry taking a river-side wharf, and retailing his vast Durham output at a considerable reduction on current selling price of Durham coal. It is evident the coal merchants "jours de fete sont passes," when we behold Rickett, Smith, and Co., and Herbert Clarke hawking coal in 1 cwt. sacks through the streets. All required of the coalowners was to cooperate with me in forming a syndicate, as capital to any extent can be procured.—20, Little Tower-street, Nov. 8.

W. J. Thompson,

GELLIVARE IRON ORE EXPLOITATION.

GELLIVARE IRON ORE EXPLOITATION.

Str.—My last letters in the Journal of Oct. 22 and Nov. 5 leave me only to notice the great objection to gravitation railways for passenger traffic, with stations at short distances as on existing surface railways, entailing numerous stoppages. Mr. Robert Stephenson's report on the formation of a railway with undulatory planes to the directors of the London and Birmingham Railway Company, stated—" With surface railways the power to halt at any given point is a great object, impracticable with a gravitation railway, the smallness of the inclination admissible on surface railways lessens very little the friction." The express trains emerging from King's Cross, St. Pancras, Euston, Paddington, as well as from two transpontine systems owe their speed (compared with the gravitation system slow place) to a long run without stoppage, avoiding all but first-class stations. In Lapland there is no population nor passenger traffic requiring frequent or indeed any stoppages between the termini, the line being laid out for the transport of iron ore in a crude or manufactured state, wood, game, salmon, and other fish, &c., in which there will be an immense and highly remunerative trade to England. When the time arrives for giving passenger traffic a thought there will not be much difficulty in extending facilities suitable to that region. The impossibility of the brake acting upon rolling stock at a great velocity on a surface railway as shown in the sequel involves certain destruction to life and rolling stock. Wooden railways exist not only in America, as I named in a previous letter, but as the eminent railway engineer and coalowner, the late Nicholas Wood, states in his Treatise on Railroads. The railways in the North of England, the pioneer of railroads, were constructed of wood, with wooden rails without plates or iron rails, following the undulations of the surface. On very steep descents the work was frequently laid off for many days on account of wet weather, a sudden shower of rain

ony of the wagons were on the deality set the whole away, destroy, govern thing in their course, and finally were dashed to pieces at the bottom, notwithstanding the brake was applied which was of nose with the great velocity. Dr. Lardner stated at the Bristol meeting of the British association that "an extraordinary difference mose even on a level railway in wet weather, giving the engine an immense additional power by reduction of the friction." The magnitude of mechanical power began 20 centuries ago by Archimedes, re-discovered by Galileo, advanced by Pascal, carried out by Hugghens and d'Alembert, cleaver investigation by all serious men of solid culture, although, according to the presidential "address of the Institution of Civil Engineers is tyear, the laws which govern mechanical action and forces were vary imperfectly understood in the Institution of Civil Engineers is tyear, the laws which govern mechanical action and forces were vary imperfectly understood in or railways brings is down to the present time, by stating." There exists a great want of uniformity in practice on many most important matters relating to railway engineering, showing how imperfect and deficient it yet is in leading principles."

No fact in meteorology is more satisfactorily established than the intimate connection substitute by the province of the gradient, a gradient in the atmosphere being to the steepness of the gradient, a gradient in the atmosphere being to the steepness of the gradient, a gradient in the atmosphere being to the steepness of the gradient, a gradient in the atmosphere being to the steepness of the gradient, a gradient in the atmosphere being to the steepness of the gradient, a gradient in the atmosphere being to the steepness of the gradient, a gradient in the atmosphere being to the steepness of the gradient, a gradient with the most ample cluciation of the steepness of the gradient, a gradient with the most ample cluciation of the gradient o ascerain its depth a shart would require to be sunk on the or, and a drift would require to be made to prove the width. This has not been done, for the simple reason that it has not been considered necessary. The working of Messrs. Heredia's mine (it being situated between two portions of the Marbella Mine) will greatly facilitate the working of the latter, as it will be the means of opening out enormous quantities of ore, which could not have been so readily got at except through the Messrs Heredia's workings. The Spanish been one cause of the ruin of this most unfortunate company. I now between two portions of the Marbella Mine) will greatly facilitate ask the administration and the consulting engineer if it is not just possible that the engine can drain no deeper is owing to carelessness in not making the proper calculations in the case, and at except through the Messrs. Heredia's workings. The Spanish that the engine has reached the limit of its power to raise water, and

so that when the present lease of Messrs. Heredia's mines expires the company could fall back upon its own property should there be any difficulty about renewing the lease, and, in fact, be independent of Messrs. Heredia altogether.—Present Profits: According to the last report issued by the board the output for the first half of this year was 30,000 tons, and they expected that there would be an increase during the present half-year. We may, therefore, calculate the total output for this year at about 70,000 to 80,000 tons, and as the ore cannot be costing more than about 6s. per ton f.o.b., a very the ore cannot be costing more than about 6s. per ton f.o.b., a very large profit must be accumulating.

A SHAREHOLDER, AND ONE WHO HAS REPEATEDLY

VISITED THE MINT.

PREVENTION OF BOILER EXPLOSIONS.

SIR,—Since my return from Colorado my attention has been called to the remarks on the Prevention of Boiler Explosions contained in the Journal of Oct. 8. I have been led to look into the question, and have ordered two of Smith's Patent Steam Sentinel Safety-valves to be fitted on two boilers at Langston Mine in Devon, and shall introduce them whenever I can, as I am satisfied that the use of them will largely reduce the risk of boiler explosions, and the liability of mine owners under the new Act

bility of mine owners under the new Act.

T. CURRIE GREGORY, C.E., F.G.S.

Queen Victoria-street, Nov. 10.

THE ROCK-DRILL COMPETITION AT THE CARDIFF EXHIBITION.

THE ROCK-DRILL COMPETITION AT THE CARDIFF EXHIBITION.

SIR,—Respecting Col. Beaumont's letter published in last week's Journal the facts are as follows:—Messrs. Beith, on behalf of the Beaumont drill, Messrs. Hathorn and Co., proprietors of the Eclipse drill, and ourselves for the Normandy drill, all agreed to make a public trial on a block of Cornish granite, as arranged by Mr. P. C. Hurry, Chairman of the Mechanical Section of the Cardiff Exhibition. The Beaumont drill started first, and worked without stopping for 2 min. 30 sec., and until a part holding the chisel suddenly gave way, when Mr. Beith who was personally working this drill, shut the air off, and the hole bored was measured and stated to be 7½ in. deep. The Normandy drill started next, and in 2 min. 10 sec. bored a hole 10½ in. deep, and was then stopped being through the granite block, the blow of the chisel knocking off the remaining thickness of the block, which was over 1 ft. thick. The Eclipse drill started next, and in 2 min. 25 sec. bored a hole 10½ in. deep, and was stopped, being also through the granite. If the Beaumont drill had not suddenly broken down, and continued boring at the same rate, it would have required 3 min. 24 sec. to bore a hole the same depth as the Normandy did in 2 min. 10 sec., and the Eclipse in 2 min. 25 sec. Boring holes in blocks of granite at a public trial above ground, where every one can see the trials are fairly conducted, ought to be the most satisfactory, for if they do well above ground so will they below if fairly used. The proprietors of the Beaumont and Eclipse drills would have been quite content with the Cardiff trial had their drills come out first as they expected, but as they did not they now run down the trial. We may add that only those who go into the business of supplying rock-drills have any idea of the difficulties thrown in the way to prevent the merits of newer machines becoming duly appreciated, especially when, as in our case, they are at least as efficient, and far simpler and cheaper

COST BOOK AND LIMITED LIABILITY.

COST BOOK AND LIMITED LIABILITY.

SIR, — Mr. Symons intimates that shareholders in Cost Book mines are liable for all the debts of a company. I think I could prove that in this statement there lies an absolute fallacy. It will be admitted that if a man marries he makes himself liable for all the debts his wife may contract, but is it likely that any person would use this as an argument against marriage. In the face of Mr. Symons's caution against unlimited liability, his argument would not influence me against entering into the matrimonial state, and I would certainly urge your readers to hold by their Cost Book shares, which are evidently both very popular and negociable. I never held a mine share in my life, but, in consequence of the letters which have appeared in the Journal and close investigation into the real liability of shareholders, which I beg leave to say is not unlimited, in Cost of shareholders, which I beg leave to say is not unlimited, in Cost Book mines, I take this opportunity of stating that when I do hold mining shares I shall endeavour only to do so subject to the provisions of the Cost Book. Taking a broad view of the case, and with a knowledge of all the facts, I can conceive of no arguments more foolish than those which Mr. Symons endeavours to advance.

COST-BOOK VERSUS LIMITED LIABILITY.

ticular hobby of to-day is to advocate Cost-book mines let him do so in all fairness, but not at the expense of those who are interested in Limited mines, and whose motives (although not pharisaically flaunted

lest others not similarly endowed should monopolise the whole of the mining business, and therefore to prevent such a calamity vaunt their own shares as preferable to those recommended by any other worldly minded person. It is this spirit of envy, malice, and all un-charitableness which not only injures legitimate mining (Cost-book or Limited), but drives the speculative investor out of the field, never G. S. GREGORY. to re-enter it .- London, Nov. 9.

COST-BOOK AND LIMITED LIABILITY.

COST-BOOK AND LIMITED LIABILITY.

SIR,—I read your last week's issue with great interest, but was surprised at Mr. Symons' reply. His attack on Carn Brea, Dolcoath, and West Basset was, however, most unfortunate for his argument. It is true that these mines did contract debts, but the debts were contracted by and with the knowledge of the large shareholders of almost unlimited means, who did not wish to trouble the shareholders generally about difficulty which was known by them to be only temporary, especially as there was so much on the other side to more than cover any over-draft made needful by circumstances without parallel in our time. Did any shareholders suffer from their action? No one knows better than Mr. Symons that the shareholders were infinite gainers, as the quotations of those shares to-day prove. I do not approve of anything being kept from the general body of shareholders, nor do I approve the action of the committees in the cases

nnimite gainers, as the quotations of those shares to-day prove. I do not approve of anything being kept from the general body of share-holders, nor do I approve the action of the committees in the cases referred to, but the result was all the shareholders could desire.

And this is the ground of Mr. Symons' attack on the Cost-book! But no, I beg pardon. He takes us back to the year one, when Chifford flourished under the old Cost-book Act, which was really most objectionable and dangerous, but which, since the passing of the Act of 1869 "for the better regulation of mines within the Stannaries," has been superseded. Mr. Symons pictures a forlorn lady, who lived he does not tell us when—probably 20 years ago—but who was left alone to bear the burden of her folly. It was certainly very ungallant on the part of her partners, but Mr. Symons knows very well that they could not do so under the new Act of 1869, and that if they attempted it the attempt would be a criminal one, for now it is a criminal action to transfer shares to a man of straw to get out of a Cost-book company, and the officers are bound to see that full advantage is taken of this excellent provision.

Mr. Symons says that I know every partner in unlimited liability companies is liable for all debts. But I also know, notwithstanding this, that as the accounts are made up every four months, and presented to me or my agent for inspection and audit, that on these occasions I can get whatever infor nation I like. That I can, if I please, withdraw from the business by merely giving formal intimation of my desire to do so to the secretary, and paying simply my proportion of liabilities (not more than my urpopertion). I can be

occasions I can got the business by merely giving formal intimation of my desire to do so to the secretary, and paying simply my proportion of liabilities (not more than my proportion), I can be fully released, and can claim my share of the assets of the company in due course. This is the alternative if I cannot sell my shares. I see in all this the essence of limited liability and not wholesale destruction, as Mr. Symons would have me believe.

Veritas.

CORNISH MINING, ITS UNEXPLORED GROUND.

CORNISH MINING, ITS UNEXPLORED GROUND.

SIR,—In surveying the unexplored mining ground of the county superficial workings, made no doubt centuries ago, are here and there seen; judging from the amount of work done from surface to so deep as the ancients could work without machinery, deeper development with present improved mining appliances can scarcely fail to be remunerative. The history of the productive mines around Carn Brea hill can be traced back to following in the wake of the ancient miners, who discovered most, if not all, the champion lodes throughout the county. The expense of opening mines of this class is small compared to reworking old deep mines, and the chances of success greater. The inference, therefore, is that there are mines to be found quite as rich as those now so famous for their tin-producing qualities around Carn Brea. The Carn Marth granite hill is in character the same, a ramble around which will not only interest the geologist, but show convincing proofs of the great masses of mineral therein hidden Starting from the western foot of it is the ancient tin workings so well known in the district by the name of Golden Calf from its extensive surface working must have produced large quantities of tin; preparations are being made to develope it deeper, a shaft has been sunk 15 or 16 fms., and a rich tin lode discovered 3 ft. wide; this mine is called South Carbis. A small outlay will suffice to open out a rich and lasting mine, and to all appearances they are on the top of one, rich tin being brought to surface. Further north you come on a series of lodes said to embrace the great flat lode now so rich in South Frances and West Basset; here also are extensive surface workings, which it has been determined to follow deeper by the erection of a powerful steam pumping-engine at Mount Carbis Mine, workings, which it has been determined to follow deeper by the erection of a powerful steam pumping-engine at Mount Carbis Mine, which has been at work about two months, and I noticed some which has been at work about two months, and I noticed some hundreds of tons of good tinstone at surface raised from the bottom, where there is a lode (only 40 fms. deep) worth for all the length driven 30l. per fathom; this seems to be the discovery of a rich tin mine, and ranks high in the estimation of the mining experts around Redruth. Coming further east is the New Cathedral Mine, also in comparatively new ground, having the productive lodes of Wheal Damsel and Wheal Jewell going through the sett, which they seem to be mining in a highly creditable way, and by pursuing the course marked out can scarcely fail to meet with success.

F. G. S.

TAVISTOCK AND LATCHLEY DISTRICT.

S1R,—When we consider the success of the Devon Consols Mines from 1844 to 1866, when nearly 1,000,000*l*. were paid in dividends on 1024*l*. capital, no wonder need be expressed on the new explorations in the river hills at Latchley, as the River Tamar only divides them from Devon Great Consols Mines. It would be a remarkable thing if capital was to be sent out to work American silver mines, or Indian or Venezuelan gold mines, where "distance lends enchantment to the view," and the most worthy and legitimate investments or speculations surrounding Devon Consols should be neglected. Let us suppose that a mine was discovered on the Pacific side of the or speculations surrounding Devon Consols should be neglected. Let us suppose that a mine was discovered on the Pacific side of the Rocky Mountains, the hills of India, or Venezuela which gave \$5,000,000 profits on a first capital of \$5000, which was the case in Devon Consols, the result would be that very many companies would be formed in this country, probably with a combined capital of 5,250,000*l*, which is the sum sunk during the past two years in Indian, Venezuelan, and American mining companies. Wheal Benny, at Latchley, has several lodes which will, no doubt, make a stir before long; for it is reasonable to suppose that one or more of the great lodes of Devon Consols passes into Wheal Benny. The shaft, 11 by 6, is going down on a splendid lode.—London, Nov. 9. 11 by 6, is going down on a splendid lode .-E. BREWIS.

NEWLYN UNITED MINES.

After a lull of many years in the Newlyn district there is considerable animation displayed in the preparations for re-open East Wheal Rose and Shepherds Mines, both of which in past tir pherds Mines, both of which in past times anes. The Newlyn United Mines are conyielded such colossal fortunes. The Newlyn United Mines are con-tiguous to the northern limit of East Wheal Rose, all the rich lodes in which intersect these nines. There are also three north and south lodes in addition which run east of East Wheal Rose boundary. One of these lodes is 3 ft. wide, another 11 ft. wide, and the third 5 ft. wide, all intersected by an adit within a length of 20 fms. in a congenial clay slate, at a depth from surface of 9 fms. The constituents of the lodes are mundic, prian, flookan, and spots of lead ore. At a moderate depth these lodes will doubtless yield large returns of silver-lead ore. Old Shepherds east and west lode is now being driven on eastwards, and has intersected the before mentioned three north and south lodes. This lode is looking well, carrying mundic and lead; the end is 100 fms. from the tail of the adit. The miners are now sinking a shaft to meet the end of the adit for ventilation and for the discharge of ores and debris, which shaft will be sunk on the easternmost of the three lodes below the adit when that point The celebrated lodes called Middleton's and East lodes in East Wheal Rose are about 30 fathoms west of the shaft aforesaid and which will be cut shortly. The 100-in, cylinder engine now being erected on East Wheal Rose will drain these lodes in Newlyn

yielded a profit of about 300,000l. The circumstances certainly justify very sanguine expectations, and I must congratulate Mr. Edwards, J.P., of Wolverhampton, on his good fortune in securing such a property for the small sum of 2000l. or 3000l.

Truro, Nov. 9.

WEST WYE VALLEY LEAD MINING COMPANY.

SIR,—On June 15, 1880, at an extraordinary meeting, it was decided to re-construct this company, and with this object a resolution to wind-up the company voluntarily was passed. Mr. Kitto informed the meeting that he was satisfied that the prospects of the mine will fully justify the course which I have adopted, and the Chairman stated that the time occupied in the transfer would be about three months. Up to the present date, however, no practical results appears to have been attained; and considering that the purchase of the mine is set down in the last balance-sheet at 25,0001., plant, &c., 20031. Is. 2d., and amount expended on permanent works 73881. 0s. 5d., whilst the debenture debt was only 30001., I think the shareholders have a right to know what has been done, and if the mine is still in the hands of the liquidator. One would think that one year and five months would be sufficient time to carry into effect the resolutions passed in June last year.—Nov. 7.

A Shareholder.

CALLINGTON DISTRICT.

to us distant shareholders a welcome ray of light on the discovery in Silver Hill. But my first thought was on reading it—How came it that the board did not apprise the shareholders of so important a matter, or what value do they deem it at? However, coming as this news does, from an independent source, we appreciate it immensely, and the next time "S. B." visits the district some information as to the bridgings and the next store. and the next time "S. B." Visits the district some information as to the buildings, and also as regards the likelihood of metal being in a fair way for market, would be gratefully accepted. I am aware the mine is but in its infancy, and these discoveries go to shed lustre on it in particular and the district in general which cannot be too widely known.—Leith, Nov. 8.

W. B.

WEST CARADON-NEW WEST CARADON.

SIR,—What a fine thing tez to be able to rite! There's Uncle Sam, he have been down visiting West Caradon and New West Caradon Mines, and sent 'ee a handsome report; and tez zackly like it is too. When I saw his tale in the Journal, I says to myself he's some braave scholard he is; but here's me and a lot of other men that knaw the mines well, and could tell 'ee a fine passle about them; but maybe the grand genelmen in London church-town would larff to see our queer words in print. Howsomever, I want 'ee all to knaw that West Caradon and New West Caradon ez, like Uncle Sam knaw that West Caradon and New West Caradon ez, like Uncle Sam do say, two keenly mines; and as there's no cost for pumping, most of the money ez spent underground exploring and breaking ore; and weth such a pretty lode as they have now in New West Caradon, and making home close to West Caradon boundary, they will soon be doing wonders. Cappen Nicky have already sold in a few months scores of tons of ore from West Caradon, and last Monday they sampled their first passle of (computed) 50 tons from New West Caradon, and anyone as ez acquented with Cappen Nicky do knaw that his passles never come a pound under what he calls them. And when I look at the beautiful machinery and pliances he have put up, and the handy dressing-floors, with nice wooden sheds to keep off the cowld from the maidens, bless his heart; why, I do finely think upon it, mind you. When the venturers have mitten to give their the cowld from the maidens, bless his heart; why, I do finely think upon it, mind you. When the venturers have mitten to give their first dividend, I hope Uncle Sam will persuade them to hold un on the mine and give the men a dinner; it would encourage them braave. The tutwork men and tributers would go to work after un like steam injuns, and send up such tummals of ore that Cappen Nicky would have to take the chair at the ticketings, and get as proud as fire. But no, his dear old head has been screwed on right too long for anything to turn un now. If thee ear't too grand to put this in the Journal, I'll rite 'ee agen another time. Wish 'ee well my son; from

UNCLE BILLY BUZZA. UNCLE BILLY BUZZA. my son; from Cornwall, Nov. 9.

GREAT WHEAL VOR DISTRICT.

SIR,—This district is well known to most mining men. For a long time it has been under a cloud, but I am pleased to say a little sun is beginning to shine in many good spots. I was rather surprised to find so many setts taken up and in the hands of influential parties. I am well acquainted with this district and know the whole lodes in the Wheal Vor district. Capt. Hodge and several gentlemen visited the old Polladras Mine. This is a good mining property, and if fairly worked will handsomely remunerate the shareholders. New Great Wheal Vor is another good property if fairly developed. I have for several weeks watched the reports in the Mining Journal and saw Mr. E. Orchard's remarks. I would advise the agent, being a stranger, to call in some bargain buyers to sample the tinstuff; the slabs of tin will be found to turn into white iron. I have seen a plenty of white iron from this lode which has been reported at high figures to be tin; the tin sales are the best reports. There is other lodes in the sett which produce less white iron, and no doubt when worked on will prove successful.—Helston, Nov. 7.

MINER. SIR,-This district is well known to most mining men. For a long

FOREIGN MINING AND METALLURGY.

Upon the principal French markets quotations have been supported with firmness at 8*l*. per ton. Plates have been held firmly at 10*l*. 12s. per ton. In connection with an important contract for 220,000 tons of rails given out by the Paris, Lyons, and Mediterranean Railway Company it may be stated that that company refused at present to use dephosphorised rails. It receives accordingly Bessemer steel rails, and the same course will be pursuad until the expiration of contract. The the same course will be pursued until the expiration of contract. The Paris, Lyons, and Mediterranean has, however, by way of experiment, purchased from Creusot 500 tons of dephosphorised rails; these rails purchased from Creusot 500 tons of dephosphorised rails; these rails it has laid down at points where there is an exceptional wear and tear, so that in a few years the management will be enabled to test the real value of rails of this class. At present the engineers of the Paris, Lyons, and Mediterranean are under the impression that dephosphorised rails wear out more rapidly than Bessemer steel rails. The Northern of France Railway Company has provided for its rail requirements for several years by contracts with the Denain and Anzin Company; it is little probable that the Anzin Company will supply any dephosphorised rails, as they do not undertake their manufacture. As regards the Orleans Railway Company it has just concluded a contract for 13,000 tons of [rails with the Firming Company, which will only furnish Bessemer rails.

There is comparatively little news to communicate with respect

not seem too much to expect that the present tone of the Belgian markets will continue. Every one appears to have plenty of work for the moment, and new orders do not by any means make default. Some purchases of old materials have been noted in Belgium upon American account. Girders have been in good demand in Belgium Some purchases of old materials have been noted in Belgium upon American account. Girders have been in good demand in Belgium at fully previous quotations. A report has been circulated of late that a well known Luxembourg syndicate had been dissolved; this report does not appear, however, to have had any foundation in fact. The syndicate, as matters now stand, proposes to continue its operations until Dec. 31, 1883; the Ars works, however, no longer form part of the syndicate. The situation remains generally unchanged in the German iron trade; the orders which come to hand are generally sufficient to employ the works, and the general aspect of the markets is satisfactory. Prices have shown a tendency to advance upon the German iron markets. The German steelworks are very actively employed, and fresh orders continue to come to aspect of the markets is satisfactory. Prices have shown a tendency to advance upon the German iron markets. The German steelworks are very actively employed, and fresh orders continue to come to hand. A contract for 30,000 tons of steel rails for the Upper Italy Railway has just been received by a German steel-making establishment; the contract price is stated to be 6\%\%L\$1. 12s. per ton delivered. The aspect of the Belgian coal trade continues favourable, and the current of orders does not appear to be falling off. The irror

United, thereby saving a great expense in pumping.

The miners in the district express great confidence in Newlyn United Mines, saying that it will be another Bast Wheal Rose, which the current of orders does not appear to be falling off. The iron for want of capital and labour.

Galena silver-lead has been discovered at several places; cinnabation that the current of Belgian industry Belgian coalowners appear to for mercury, in several lodes at Kilkivan; cobalt with nickel at Po

have nothing to fear. Prices for coal have naturally, under all the encouraging circumstances prevailing, been well maintained in Belgium. Official returns which have just appeared show that the imports of coal into Belgium in the first nine months of this year amounted to 708,400 tons, as compared with 642,057 tons in the corresponding period of 1880, and 524,511 tons in the corresponding period of 1879. The exports of coal from Belgium in the first nine months of this year amounted to 3,077,660 tons, as compared with 3,234,503 tons in the corresponding period of 1880, and 3,140,026 tons in the corresponding period of 1879. Coke was exported from Belgium in the first nine months of this year to the extent of 662,458 tons, as compared with 599,946 tons in the corresponding period of 1880, and 451,338 tons in the corresponding period of 1879. The demand for coal has been active at Paris, householders being apparently determined to avoid the sufferings and difficulties to which they were exposed in the matter of their coal supply two years since. Prices have not varied materially at present; but, having regard to the influx of orders, an advance seems probable. The coal trade maintains a good tone in Germany.

OUR GOLD SUPPLY-ITS EFFECTS ON FINANCE, TRADE, COMMERCE, AND INDUSTRIES-No. VII.

BY THOMAS CORNISH, Mining Engineer (late of Australia). Author of "Gold Mining, its Results and its Requirements." QUEENSLAND.

The gold discoveries of this colony were several years later than those of New South Wales and Victoria, but have proved as rich as any. There are the alluvial workings in loose earth, or in the beds of streams, and vast areas of auriferous quartz reefs which will last for centuries.

for centuries.

The relation of the southern, central, and northern mines was officially declared at the end of 1876. Thus of the southern gold fields, Gympic had 1075 miners; Kilkivan, 80. Of the central, Peak Downs had 194; Roekhampton, 188; Calliope, 112. Of the northern gold fields, the Palmer had 10,131; Charters Towers, 1223; Hodgkinson, 842; Ravenswood, 297; Etheridge, 182. But these numbers are constantly undergoing changes by rushes from one

numbers are constantly undergoing changes by rushes from one diggings to another.

Gold has been discovered in various points along the ranges from lat. 28½° south to 12° south, and from long. 140° to 153° east, or about 1000 miles in length by 800 miles in width.

The Palmer gold field, discovered a few years since, is in about 15° or 16° south longitude, extends over a large area of country. The heat is tropical, but gold is plentiful. During 1877, the reefs paid each miner at the rate of 250½ for the year. As an instance of the extreme richness of some of the reefs, 58 tons of quartz gave 6469 ozs. Gold is got also at the Cohen, Coleman, and Kennedy rivers.

rivers.

The Hodjkinson quartz reefs may be termed a southern continuation of the Palmer gold field. This is another extensive field and very rich. During 1877 there were crushed 13,506 tons of quartz, which yielded 30,567 ozs. of gold, averaging 2 ozs. 5 dwts. 6 grs. per ton. The reefs from Mount Mulligan, sometimes 10 to 12 ft. wide, extend 46 miles in length by 4 in breadth. Another line of reefs is 16 miles long. At the end of 1877 the population was only 2800 Expressed 440 Chinese. 16 miles long. At the end Europeans and 400 Chinese.

Europeans and 400 Chinese.

The Etheridge, the Normanby, and the Gilbert are also extensive gold fields in the northern part of Queensland. The reefs are very rich, but in consequence of want of efficient machinery and labour, crushing is very expensive.

The Cloneurry is a long way inland, on the north side of the M'Kinlay range, and is 300 miles from a gulf port. Gold and copper are plentiful.

Charters Towers is more southward than the above, being west of the Burdekin river. This is an extensive and rich gold field. The

Charters Towers is more southward than the above, being west of the Burdekin river. This is an extensive and rich gold field. The escort in 1877 took down from thence 87,200 ozs. One crushing of 50 tons lately gave 600 ozs., or at the rate of 12 ozs. to the ton. Though situated in the tropics, the high elevation gives cool nights. The Star river diggings are west of Townsville.

Ravenswood, the Cape river, and Broughton, are also extensive fields. Ravenswood, in two years, crushed 120,000 tons of quartz. Among the central Queensland gold fields are the Calliope, the Cawarral, and Peak **D**owns, while near Rockampton are Crocodile, Rosedale, &c.

Rosedale, &c.

Rosedale, &c.

The southern gold fields are the Barnett, Darling Downs, Pikedale, Kilkivan, &c, and the oldest and most prosperous the Gympic, which in five years, with a small population, raised 1,000,000% of gold, and still keeps its reputation for rich quartz. A crushing of 26 tons in April, 1878, yielded 441 ozs., and a crushing of 739 tons gave a fine cake of 5800 ozs. of gold. The average yield during 1877 was not less than 2 ozs. 5 dwts. Sgrs. per ton. The waste tailings of the machine assayed in London were found to contain from 2 ozs. to 18 ozs. of gold, and from 1 oz. to 5 ozs. of silver to the ton. All that had been thrown away from the difficulty of extractions. All that had been thrown away from the difficulty of extract-

ing the metal

The gold export may be estimated at upwards of 1,500,000l. per annum. A large amount being carried off unacknowledged, especially by the Chinese.

The enormous area of auriferous country opened up during th last few years in this colony, shows plainly that with efficient machinery, a good water supply, and more population, Queensland will in all probability prove the richest and most productive of the

Australian gold fields.

The great influx of Chinese to the northern gold fields a few year since caused the Government to pass a law imposing a penalty of 10% for their admission to the colony and 3%, a year for minerights, and their business licenses 10% annually. This arbitrary and questionable method of dealing with the influx of Chinese was not creditable to the liberality or practical judgment of the Opensian. destonable method of dealing with the minux of thingse was not creditable to the liberality or practical judgment of the Queensland Government. At the time the matter was under discussion I suggested a method of dealing with the 'Chinese influx in a way that would have been more advantageous to the European miners and the colony as well. My proposal was that as the tropical heat is to much for the European miner to work with advantage in norther Queensland, that they should have been allowed to hold larger area for mining claims and utilise Chinese labour for working either. Paris, Lyons, and Mediterranean are under the impression that dephosphorised rails wear out more rapidly than Bessemer steel rails. The Northern of France Railway Company has provided for its rail requirements for several years by contracts with the Denain and Anzin Company; it is little probable that the Anzin Company will supply any dephosphorised rails, as they do not undertake their manufacture. As regards the Orleans Railway Company it has just concluded a contract for 13,000 tons of [rails with the Firming Company, which will only furnish Bessemer rails.

There is comparatively little news to communicate with respect to the Belgian iron trade. It may be stated, at the same time, that would not have been allowed to overrun the best gold fields discovered by the enterprise of European miners, and ultimately excluding them from the should have been allowed to advantages of their own discoveries. But that no alien Chinese should have been allowed to overrun the best gold fields discovered by the enterprise of European miners, and ultimately excluding them from the should have been allowed to overrun the best gold fields discovered by the enterprise of European miners, and ultimately excluding them from the should have been allowed to overrun the best gold fields discovered by the enterprise of European miners, and ultimately excluding them from the been allowed to overrun the best gold fields discovered by the enterprise of European miners, and ultimately excluding them from the been allowed to overrun the best gold fields discovered by the enterprise of European miners, and ultimately excluding them from the been allowed to overrun the best gold fields discovered by the enterprise of European miners, and ultimately excluding them from the been allowed to overrun the best gold fields discovered by the enterprise of European miners, and ultimately excluding them from the been allowed to averrun the best gold fields discovered by the enterprise of European miners, and ultimately excluding them from the been all and under the skilled supervision of those to whose energy and experience these valuable discoveries were made known.

OTHER MINERALS THAN GOLD.—Queensland possesses large areas

of country containing copper, tin, iron, galena, silver-lead, coal, and precious stones. The Peak Downs Copper Mine sent down 1,000,000/worth of copper, and paid 215,000% in dividends in five years. Other worth or copper, and paid 213,000. In dividends in his years. Other copper localities are Kroombit, near Calliope, Mount Wystt, west of Mackay, Star River, Upper Dawson, Rawbelle, Crossbrook, Normanby, Nebo, Copperfield river, Mount Orange, Lynd river, and Mount Gotthardt, Cloncurry, and others. For the year 1876, 9334 tons of ore made 2102 tons of copper.

TIN.—The stanniferous or tin country already discovered is estimated to 500 square miles, some of the developed of standard in higher the control of the country already discovered in higher control of the control of

mated at 500 square miles; some of the deposits of stream tin have been very rich, and lodes of tin are now being satisfactorily tested. The large deposits of stream tin discovered in Queensland and Tasmania during the last ten years has materially reduced the price of tin in England, and affected the value of the tin mines in Cornwall.

IRON.—The iron ores, however rich, cannot at present be worked.

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Gold field.	No. of ton	S	Gross yiel	d.	Avei	rage	p. ton.
Palmer	2.016		6.991		63		91
1 annet	. 0,010		. 0,001		-	O	41
Hodgkinson							
Etheridge and Gilbert	. 4,455		8,821		1	19	5
Cloncurry							
Charters Towers	. 39,285		. 68,594		1	14	22
Ravenswood	. 13,479		. 12,620		()	18	10
Clermont district	. 2,293		. 1,089		0	9	115-6
Gladstone district	. 785		. 3,430		4	7	9
Gympie	. 22,562	*******	. 39,511		1	15	0
Or a general average of	1 oz. 11 c	lwts. I	2 grs. pc	r ton	: tl	nis	return
does not include the yield					,		

does not include the yield from pyrites.

The average earnings of the quartz miners on the six principal reefing districts of the colony during the past year has been as follows:—Charters Towers, 267%, per man: Gympie, 185%; Hodgkinson, 273%; Ravenswood, 208%; Palmer, 277%; and Etheridge and Gilbert,

2734.; Ravenswood, 2002., Taline, 1000. per man.

With increased energy and the judicious investment of capital, and the organisation and direction of mining labour, the colony of Queensland has before it a great future as a gold-producing country.

SOUTH STAFFORDSHIRE AND EAST WORCESTERSHIRE INSTITUTE OF MINING ENGINEERS.

The monthly meeting of members was held on Monday in the Mining Museum. Dudley,—Mr. WILLIAM FARNWORTH (Vice-President) in the chair; and there were present, among others, Messrs. H. Johnson, F.G.S., Thomas Parton, F.G.S., David Peacock, W. J. Hayward, John Hughes, Tregloun, John Field, Jonah Davis, R. Latham, D. Rogers, A. Bowhley, J. Cooksey, S. Bailey, John Broun, J. Bailey, T. H. Bailey, J. F. Addenbrooke, Marsh, Waring, Watkins, Cole, Isaiah Foley, and Alexander Smith, M.I.C.E., secretary.

The minutes of the last general and council meeting was read and confirmed.

PROPOSED REMOVAL OF THE INSTITUTE TO BIRMINGHAM.

PROPOSED REMOVAL OF THE INSTITUTE TO BIRMINGHAM.

Mr. FARNWORTH explained to the meeting the presence of Profs.
Lapworth and Smith, from the Mason's College, Birmingham. He said both gentlemen were present that evening owing to the action of the Council. On the previous Friday evening it had been thought advisable that those gentlemen should attend the Council meeting and point out the advantages and benefits to be derived by a removal of the Institute to the Mason's College, Birmingham. The Institute had already, by Mr. Joseph Bailey, and the secretary, Mr. Alexander Smith, sent a letter to the college upon certain points.

Mr. ALEXANDER SMITH, C.E., then read the letter, the points in question being:—"1. Whether the 'Examination Hall' would be available for the general meetings of the Institute?—2. Could they be provided with a room for the mining museum and reference library?—3. Would the fine reference library of the college be accessible to the members and students?—4. What would be the conditions of tenure of rooms occupied by the Institute?—5. Would the trustees be inclined to make special terms with the students of the Institute as to classes, as they would have to come by rail from the surrounding districts?" He (Mr. Smith) explained that after the letter was received new trustees had to be appointed by the Town Council of Birmingham, so that no definite answer could be given to the letter. The new body had not yet had time to discuss the matter, but the two professors present had had the matter left with them to negociate.

Prof. LAPWORTH said that in a public lecture he delivered a short.

the matter, but the two professors present had had the matter left with them to negociate.

Prof. LaPworth said that in a public lecture he delivered a short time ago he explained what seemed to him the advantages of gathering together the mining, mechanical, and civil engineers under the roof of Mason's College, and how this would especially affect the students of those professions. Prof. Smith and he himself desired that they should come to Mason's College, feeling certain that it would be to the advantage of both. There were at present rooms large enough for the Institute, and in a twelvemonth other buildings would fall to them which would give ample space. But they were not appointed to come to any final decision, but to negociate and find out exactly what the Institute wanted. As to the letter, he might say on point one, the Examination Hall would be available to them as to the other bodies in the college, date and hour being fixed. Upon point two, there would be room for a mining museum and for committee rooms. As to three, and access to the fine reference library, he might say that it was under the control of Dr. Hyslop. He was assured by that gentleman that it was exceedingly probable that the mining engineers might have the use of the library. As to the mining museum of the college it was under his (the speakers) control and with the execution of some two hours daily it would be control and with the execution of some two hours daily it would be control and with the execution of some two hours daily it would be control and with the execution of some two hours daily it would be the mining museum of the college it was under his (the speakers) control, and with the exception of some two hours daily it would be open for the Institute. The terms on which the Institute could be open for the Institute. The terms on which the Institute could be received would be the same as other bodies; they would simply have to pay for light, heat, and cleaning. Upon the fifth point he could not promise that any alteration could be made in the fees, because the precedent would be too wide, but the Institute might save money by coming to Birmingham, and that could be set off against the students' fees. He would suggest to them that they should study the question once more, and send another letter stating exactly what they wanted. He was perfectly sure they would be heartily welcome and well treated.

Prof. SMITH held that he was present in a double capacity. First, as a professor of the college; and, secondly, as a professor of a subject in which they were vitally interested—engineering. He had during his whole life time taken the greatest interest in practical science as affecting engineering. He knew how rapidly improvements in construction and in details of working were introduced, and also how apt a

College was the control of the working and the control of the college was the college with the college of the business, that a professor's pupil got the wine-blende in the Wide Buy district. Antimony in sulphates and scribed has been got as 83. John's Creek in Burnett district, and in a 2-ft. Iode at the Hodgkinson manganese and plumbago may be saided to the metal list.

College and the Hodgkinson manganese and plumbago may be saided to the metal list.

College and the Hodgkinson manganese and plumbago may be saided to the metal list.

College and the Hodgkinson manganese and plumbago may be saided to the metal list.

College and the Hodgkinson manganese and plumbago may be saided to the metal list.

College was the metal list.

College was a fine against a stream. The sardony and mangates are common in the north-west country, especially at the Clencurry. Opal in large quantities is gathered in trachytic conglements and sandatone of the Western Barcco lands.

The reports as furnished to the Department for Mines, Queensland, by the resident wardens on the gold fields for the year 1880, as anything the same does not deteriorate at the deeper levels, and lucrative mining is assured for many years to come. The stone crushed during the year amounts to 39,285 tons, yielding 68,593 cost, of gold, assaying 1 oz. 14 dwits, 22 grs. per ton."

The dympie gold field has had a considerable increase in the yield gold. "Company the returns for 1880 with the preceding year, there is an increase of 4618 cost, at new ground taken up."

On the Palmer gold field quarts mining will, no doubt, take the place of alluvial mining, for which this field has been so famous the lad company having crushed 3061 thous of quartz during the year, which yielded on the average 2½ cost of gold, assaying 1 oz. 14 dwits, 22 grs. per ton."

The dympie gold field for the yield gold per ton.

It is difficult to convey the fitted what the cornous mineral resources Queensland possesses. Auriferous country has been proved to be auriferous is 1578, and as

MICHIPICOTEN.—The shareholders will be glad to learn that everything is progressing satisfactorily at the island. A correspondent of the Algoma Pioneer says:—Every boat brings labourers and their families who will put in the winter here in mining. The steamer Frances Smith landed a large number of passengers and 25 head of cattle on Eriday last. The work at the mines just now is shaped to wards making preparations for a stamping mill, and in building accommodation for the increasing number of families constantly arriving. Mr. Batters, of London, England, a director and shareholder of the company, paid a visit to the mine this week, and particularly interested himself in inspecting the accommodation for the labourers. He expresses himself as being well pleased with the prospect of the mine in every particular. During his short stay here prospect of the mine in every particular. During his short stay here he has become a great favourite with everybody, and he will be heartily welcomed on his promised visit next spring. Work on the Bonner Location has been discontinued until the spring, on account affecting engineering. He knew how rapidly improvements in construction and in details of working were introduced, and also how apt a han was, unless he came out into the world of practical engineering, to fall back in the practical advance of his profession. It was only by a combination of the science of engineering together with a

will receive attention as soon as the labour supply meets the demand. The whole island appears to be one vast bed of various kinds of metals, and the north shore of Lake Superior literally abounds with mineral. The saw-mill employed at the harbour in cutting timber and lumber for docks, &c., will be removed to the mine this winter. Mr. Robb, of Montreal, whose name is well known to the readers of the Mining Journal, has collected a large number of specimens for assiv assay.

there are never to the control of position of the addresses of the current expension of machinery above and best grown, and the control of the difference of the current expension of an and level years on the difference of the current expension of expension of the current expension of the current expension expension of the current expension

ciate the vagaries of this class of mineral repository. After giving the examples he referred to, he said one remarkable product of the Perran lode was the zinc-blende, which, after being first discovered refrant load was the Zind-olender, which, after being list discovered in Great Retallack, and yielding sometimes thousands of tons in a year, had of late made its appearance in astonishing masses at the Duchy Mine to the extent of supplying as much as 900 tons per month for some time past. At a number of isolated points along several mines of this lode metalliferous treasures of various kinds had been laid open, but an important question at once suggested itself—what was the nature of the lode between those points, and what clue had they in the driving of the present mines as to the value of the intervening ground? He feared that much of the disappoint of the intervening ground? He feared that much of the disapment that had attended these as well as other workings arose

generally betrayed that belief in the uniformity of lodes throughout a long run was readily shaken by a close acquaintance with them. The completion of a good railway from Newquay to these mines has obviated one of the difficulties in mining the district, and the discovery of the blende in quantity has given a fillip to it which it is hoped may conduce to further successful exploration.

The Fividence of Glazial Action in Corpusull and Dayon was again

The Evidence of Glacial Action in Cornwall and Devon was again referred to in a paper by Mr. Nicholas Whitley, C.E., who stated that in two papers previously read by him before the society he described what appeared to him to be conclusive evidence of the existence of glacial deposits, and of ice-action in the south-west of England. So far back as 1854 he described in their annual report the socialled "traised heaches" at the extrary of the Tay and inthe so-called "raised beaches" at the estuary of the Taw, and in-ferred that these ancient gravel beds were the remaining portions of the northern drift, which formerly extended much further seaward, and choked up the mouths of the rivers and filled the bays around our coast line. In the Transactions of the society for 1873 be our coast line. In the Transactions of the society for 1875 described the geology of the shores of Penzance Bay, and came the conclusion that the extensive bed of sand and pebbles and boulders at Wheal Darlington, inside the green, corresponded in every respect with the "raised beaches," exposed responded in every respect with the "raised beaches," exposed in the cliff sections, and that these beds are some of the geological elements which constituted the drift of the "Glacial Age." For a period of 25 years he had examined and made sections of most of these patches of gravel over the whole of the coast line of the South of England. To this end he had also explored the islands of Scilly and Lundy, the north coast of Cornwall and Devon, and the coast of South Wales as far as Caldy Island. During the past summer he had been able to extend his researches to the estuary of Tivy on the west coast of Wales, and the country around Cardigan. He had thus been enabled to trace up these patches of drift of gravel to where they were more fully developed, and recognised as true deposits of the glacial age, and he found throughout the whole series a uniformity of material of geological position and structure. Thus, if the links in this chain of evidence were without flaw, then the geological age of this so-called raised beaches is established, and probably that also of the stream tin deposits.

beaches is established, and probably that also of the stream tin deposits.

The Ventilation and Illumination of Mines were next discussed, on a paper being read by Capt. W. Teague, jun., who, after a brief reference to past operations in Cornish mines, said that with the introduction of boring machinery, and the consequent use of strong explosives, it was necessary that they should invent some means by which the ends or levels in which boring machines and such explosives were used could be ventilated or cleared of the noxious vapours which filled the levels after blasting. He had patented an invention for this purpose which he hoped and believed would answer. With regard to the advantage of gas or the electric light in mines, Professor Warington Smyth, in reply to a question from Mr. William Bolitho, junior, said that he fancied it was very largely a question of cost, and that in most of our mines gas would be an expensive means of lighting, although where there was no fire-damp present it undoubtedly played an important part in many of our collieries. But as regards the electric light, we were quite at the beginning, he thought, of any application of it underground, and he was afraid it would prove to be a very dangerous thing to experiment upon at any cost where there was fire-damp. Mr. Leonard Courtney, M.P., was then unanimously elected president of the society for the next two years. Mr. W. Bolitho and Ir. John St. Anhyn. M.P., were elected trustees in the places of Mr. Leonard Courtney and the second of the society for the next two years. art. Leonard Courtney, M.P., was then unanimously elected president of the society for the next two years. Mr. W. Bolitho and Sir John St. Aubyn, M.P., were elected trustees in the places of Mr. Le Grice and Lord Falmouth respectively, and Mr. A. P. Vivian's name was also added. Mr. W. Bolitho, Jun., was re-elected treasurer; Mr. C. C. Ross, M.P., librarian; Mr. Millett, hon. see.; and Mr. Taylor, curator. Messrs. T. Cornish, A. L. Fox, T. R. Polwhele, and J. C. Ross were elected members of the council of the society; the proceedings of a highly successful meeting height the broadst to a less. ceedings of a highly successful meeting being thus brought to a close.

Meetings of Lublic Companies.

RIO TINTO COMPANY

An extraordinary general meeting of shareholders was held at the annon-street Hotel, on Friday, Nov. 4,
Mr. H. M. MATHESON (the Chairman of the board) in the chair. Mr. H. M. MATHESON (the Chairman of the board) in the chair. The SECRETARY read the notice convening the meeting, and the minutes of the last general meeting.

The CHAIRMAN said:—We have taken the liberty to ask your presence here to-day, in order to submit for your approval an operation of a highly favourable character for the company, which we find ourselves in a position to recommend to you. I may, however, before proceeding to the special business of the meeting take advantage of this opportunity to inform you, although with great brevity, how the company's business is going on. I am glad to say that all the work at the mines is progressing well. The quantity of mineral put out during the ten months of this year now completed amounts to 790,000 tons, and we have no doubt we shall reach at Dec. 31 an output of a million tons, or within a small fraction of it. Great progress has been made in works of development, chiefly in opening up the Dionisio and the north lodes, and we are glad to be able to say that both as regards the quality and the quantity of the ore in these deposits our expectations have been realised so far as the explorations have proceeded. Our sales of sulphur have been made in advance for the next three years on a large scale, at prices which leave the company a good remunerative profit. Our copper production is pushed on vigorously, a good remunerative profit. Our copper production is pushed on vigorously, a total the last ordinary general meeting. By way of information it may also be mentioned that the ore which we have lying spread out and in heaps on the ground at Rio Finto, which will yield its copper gradually, contains not less than 26,000 timely, particularly as the chief outlay for bringing it into marketable metal has already been defrayed and accounted for. With these principal data before us, and in view of the credit which the company now enjoys, your directors were opinion that its position could be still further improved by means of the finantion of the sanction of which we ha The Secretary read the notice convening the meeting, and the minutes of the last general meeting.

The Chairman said:—We have taken the liberty to ask your pre-

pected. It will not be possible for us, consistently with securing for you the utmost benefit of this important operation, to offer to you pro rata a preferential participation in the issue of these new shares. The capital of the outstanding bonds to be paid off is still a large one, over 1,700,0004, which will have to be met on a fixed date, and it is plain that the directors could not be left to depend for its provision upon the experience of an option on the part of the absorbed less. bonds to be paid off is still a large one, over 1,700,000L, which will have to be met on a fixed date, and it is plain that the directors could not be left to depend for its provision upon the exercise of an option on the part of the shareholders. Moreover, the registered shares of the company do not now exceed in amount one-seventh of the whole. We have the fullest confidence that you will appreciate the force of these observations, and that you will empower us so to deal with the shares as to obtain the best results for the company at large, and that each one of you may receive his proportion of the profits of the operation. In accordance with the recommendation of the board of directors, the capital of the company be increased by the issue of 100,000 shares of 10L, each."—Mr. A. G. DALLAS (Deputy-Chairman): I beg to second the motion.

The CHAIRMAN: Of course, I am ready to answer any question which shareholders may desire to ask upon any of the points to which I have referred, and which I may not have made sufficiently clear in my statement.

The CHAIRMAN, after a pause, put the resolution to the meeting, and it was carried unanimously.—The CHAIRMAN then proposed—"That in the event 5 the foregoing resolution being confirmed as a special resolution, the board of directors be and they are hereby authorised and empowered to issue and dispose of the 100,000 newly created shares to such person or persons, whether shareholders or not shareholders of the company, at such time or times, at such prenium, upon such terms (and if deemed expedient, with a right to participate in the final dividend for the year 1831) and in such manner as the board may think it."—This was also seconded by the Deputy-Chairman, and carried unanimously.

think fit."—This was also seconded by the DEPUTY-CHARMAN, and carried unanimously.

The CHAIRMAN: It will be necessary to have a meeting to confirm the special resolution, and that meeting will be held this day fortnight, that is, on Friday, Nov. 18, at the offices of the company, Cophall Buildings. The official notice will be sent out as usual.

A vote of thanks to the chair, proposed by R. P. OLDERSHAW, and acknowledged by the Chairman, terminated the proceedings.

BRITISH DIAMOND MINING COMPANY.

The quarterly meeting of shareholders was held at the company's offices, Church-street, Kimberley, on Oct. 10,
Mr. ANTON J. PETERSEN in the chair.
Mr. GEO. C. LISSAU (the secretary) read the notice convening the meeting, and the report of the directors and statements of accounts

meeting, and the report of the directors and statements of accounts were submitted:

The report and profit and loss account for the past quarter may be considered very satisfactory, particularly if it is borne in mind that the good result has been obtained in spite lef many drawbacks, such as repeated stoppages in the claims, high wages for labour, and extra expenses for night-work. The amount of work done, though more than during the preceding quarter, still falls short of what the company can do under favourable circumstances. In August a fair amount of blue [that is, diamondiferous soil] has been hauled; but in July little hauling work could be done the first half of the month, work being almost entirely stopped in consequence of the slow progress of the reef contractors' steam navy, and during the second half of September reef had to be cut down and hauled; it was, therefore, impossible to increase the stock of blue on the floor. Altogether 9763 loads blue have been hauled in 41 days and seven nights, and 4530 loads of reef.

In July and August but little work could be done on the washing-floor; in July the blue was not yet fully prepared, and in the latter half of August the new washing gear had to be erected. Work with the latter was begun on Sept. 7, and the results showed that the new gear is quite sufficient for the wants of the company. On July 1, 4494 loads blue were on the floor; this, with the 9703 loads hauled, gives a total of 14,197 loads, out of which 9947 loads have been washed in 51 days, leaving them at the end of the quarter with 4250 loads have been washed in the work and which have to be crushed and rewashed) were on the floor on July 1, and 500 loads of these have been washed in mine days; on Sept. 30, 900 lumps were still on the floor. The yield of this work amounts to 17,556 carats, sold for gross 29,6784. 16s. 3d. Out of this 902 carats or about 10754, worth were obtained from the thore. The yield of this work amounts to 17,550 carats, sold for gross 29,6784. 16s. 3d. Out of this 902

SIMONS' REEF AND CARTA PARA MINING COMPANIES.

A meeting of shareholders in these companies was held at the City

A meeting of shareholders in these companies was held at the City
Terminus Hotel, Cannon-street, on Thursday,
Mr. E. BEALL in the chair.

Prior to the opening of the meeting Mr. Wanwright and another
gentleman, who were said to be the holders of vendors' shares, were

gentleman, who were said to be the bound.

removed from the room.

The CHAIRMAN said that since the meetings of the companies, held on Oct. 31, he had had the opportunity of further ascertaining the conduct of some of those persons who formed the meetings, and he thought he might congratulate those who were now present that only bona fide shareholders were there, and not the holders of shares of the vendors or promoters. It was his clients' desire to do all that the vendors or promoters. It was his clients' desire to do all that they could in the general interests of the general body of bona fide shareholders, but not in the interests of the vendors and promoters. At the meeting, on Oct. 31, at which so much unanimity prevailed, there were present only six shareholders who had applied for shares owing to the advertisements or prospectuses. On the list furnished him by the officers of the company, and which was verified by the secretary as being a true record of the names of the persons who attended that meeting, there appeared the names of two gentlemen personally known to him, one of them being a client. He (the Chairman) did not see those gentlemen at the meeting, and, therefore, he wrote to them, and asked if they attended the meeting, and the answer he received was that neither of the gentlemen were there. The secretary of the company, in his affidavit, had stated that these gentlemen were present. (Laughter.) That reduced the number of bona fide shareholders who attended the Simon's Reef meeting to four. A SHAREHOLDER: Can you give the names of the gentlemen where said to were said to

of the gentlemen were there. The secretary of the company, in his affidavit, had stated that these gentlemen were present. (Laughter.) That reduced the number of bone jide shareholders who attended the Simon's Reef meeting to four. A SHARRHOLDER: Can you give the names of the gentlemen who were said to be present, but were not?—The CHAIRMAN: Mr. Holman Hunt and Mr. James White, late M.P. for Brighton.

Mr. BERMAN: Does not he say that they supported the directors in their resolutions?—The CHAIRMAN: I believe so. The other bone jide shareholders present were Mr. Bayliss, Mr. Whiffen, and Mr. Croney, and, perhaps, Mr. Robinson, but of that he was not sure. The number of holders of vendors' shares were very predominant, and the person who proposed his (the Chairman'ss expulsion—though he represented Mr. B. French, a large share and bond holder—was a Mr. Walker, who was not a shareholder at all, and whose name was not even on the list furnished to him by the officials of the company. The other prominent persons at the meeting were Mr. Urwick, who was not on the list, and Mr. Wanwright, jun., who was a holder of vendors' shares. To further practice the deception, the resolution proposed by this Mr. Walker, was actually in the handwriting of one of the officials of the company, and was drawn up at the company's offices, and on the back of it were these words:—"You must propose this resolution. Make yourself well acquaited with it. Say you drew it up. (Langhter.) That resolution was handed to Mr. Walker to propose, but it would be waste of time to discuss further the propriety or the conduct of the persons who took part in that meeting. (Hear, hear.) He would only add that the same Mr. Walker took a prominent part at the meetings of the Carta Para and Haven companies, in neither of which was he a shareholder.

Mr. BAYLISS remarked that he attended the Simons' Reef Company, and stated that the 35,000, shares which were said to have been applied for before the prospectus was issued were from applicants who were totally

pany. If the directors refused to allow the committee to inspect the books he believed the Courts would soon compel them to give the information required. Mr. MOORE seconded the motion, which was carried unanimously, and Messrs. Whiffin, Moore, and Griffin were subsequently appointed to form this committee. Mr. Moore, however, said that he would not be able to serve upon it. The CHAIRMAN said there were only nine bona fide shareholders in the Simons' Reef Company restding in London, and added that the directors of the company were, according to the Articles of Association, to remain in office till 1884. He ten referred to the meeting of the Carta Para Company, and defended the course taken by Mr. Horncastle on the ground that this claim was a just one, the list of advertisements submitted by him having been approved by the directors; and that as the shareholders refused to pay up the amount called upon their shares, it was useless for him to take an action to recover the amount of his claim. Mr. Horncastle, however, was a large shareholder, and was desirous of doing anything that could be done to save the money of the bona fide shareholders.

shareholders. stated that at the meeting of the Simons' Reef Company the Chairman of the company stated that a shilling per share had been paid to brokers as commission; but he had only received 6d, per share, and other brokers as commission; but he had only received 6d, per share, and other brokers that he knew had received a like commission. The Chairman wrote, in reply to a letter on the subject, that he was assured the amount—one shilling per share on 12,000 shares—had been paid.

Mr. BERMAN said his broker and other brokers that he knew [received 6d, per share commission only.

commission only.

SMITHIES remarked that the amount was ample, but that it should not been made to appear that the brokers had received twice the amount which we been made to appear that the brokers had received twice the amount which tey had actually received.

The CHAIRMAN said that a large number of the applications for Carta Para archolders were from totally irresponsible persons, who had signed applica-

ions in blank.

Mr. Berman said he believed the Carta Para shareholders would get their noney back, or a good deal of it, if they stuck together.

A vote of thanks was passed to Mr. Beall, and the meeting then closed.

UNITED MEXICAN MINING COMPANY.

The general meeting of shareholders was held at the company's offices, Great Winchester-street Buildings, on Wednesday,
Mr. Charles Morris in the chair.
Mr. W. M. Browne (the secretary) read the notice convening the

Mr. W. M. Browne (the secretary) read the notice convening the meeting.

Mr. W. M. Browne (the secretary) read the notice convening the meeting.

The report issued to the proprietors (extracts from which were published in our Journal of last week) was taken as read, and the Charman in moving the adoption of the report said he regretted not having a more favourable one to put before them, and after briefly referring to the same and stating that further advices were received on the 6th instant (which appear in another column) of a more favourable nature, and expressed his belief that the company's prospects were decidedly encouraging. Mr. Furber being present, the Chairman felt sure he would most willingly give every information the shareholiers might design.

Mr. Furbers, at the request of the proprietors, entered into an explanation of the different work which the San Cayetimo concern had been \$21,500 in the six months all had not been dead work, \$8450 having come in from one sold. He stated that though the works on the north-west side had fallen off he saw no reason for the proprietors being discouraged, because the gallery and cross-cut of San Juan—the most important works in the mine—were reported on Oct. 6 to have improved.

Mr. C. DOANE asked if Mr. Furber agreed with what Mr. Glennic had stated in his report?—Mr. Furbers replied that he certainly was of the same opinion as that expressed by Mr. Glennic. Mr. Glennie was a thoroughly independent, efficient, and honourable man, and that he had been selected by the commissioner without any mention of his name from this side. Though Mr. Glennie did not and could not say anything very favourable regarding the state of the backwork in the adit, Mr. Furber considered that his report was certainly not unpromising as regarded the future, and that at all events he clearly said that if the company should give up the concern others would at once take it up. Such being the case the present shareholders could hardly think it advisable to allow other parties to acquire t

MINAS AND RIO RAILWAY COMPANY.

An extraordinary general meeting of shareholders was held at the

An extraordinary general meeting of shareholders was held at the New Exchange Buildings, Lombard-street, on Thursday (the Right Hon. H. C. Raikes in the chair) for the purpose of considering and approving the following resolution:—

That the board of directors be, and they are, hereby authorised to create and issue mortgage bonds or debentures of the company for a sum not exceeding the amount mentioned in the 11th of the Articles of Association. That such bonds or debentures be of such amounts respectively, and consist of one or more issues ranking puri passe or otherwise, bear interest respectively at such rate not exceeding 7 per cent. per annum, be issued at such time or times, at such rate or taces, be redeemable at such time or times, and for such price or prices, be in such form, and be secured by such charge on the undertaking, revenues, and property of the company, and by means of a deed of mortgage and trust to trustees or otherwise, as the board shall from time to time determine; and that is all matters relating to such bonds or debentures, and the issue thereof, and security for the same, the beard shall have power and authority to act on behalf of the company as they deem expedient, as fully and effectually as if the same were hereby expressly authorised.

Mr. R. C. Preseron (the secretary) read the notice convening the

R. C. PRESTON (the secretary) read the notice convening the The CHAIRMAN said that before moving the resolution he would

The CHAIRMAN said that before moving the resolution he would advert for a moment to the engineer's report, which had been circulated. He thought the shareholders would have been very glad to have received that report, both on account of the very important evidence it afforded of the rapidity with which the work was being pushed on, and also for its significance as bearing upon the resolution which had to propose. They would observe in that report, amongst other encouraging statements, "At the tunnel under the peak of the Sierra, the summit of the railway and the key of the works, the shafts and the cuttings at each end of it have been completed, and the tunnel is already being driven at a monthly rate, and the present rate of speed will be considerably accelerated when the drilling machinery is in full operation." They had also seen the statement entained in that report of Mr. Brunlees with regard to the progress made generally with the work. There was a further statement which was of importance with regard to the meeting here to-day, and it was the paragraph which stated: "The Government Engineer Fiscal, M. Francisco Periera Miranda Azevedo, charged with the supervision of the enterprise, in his report of the state of the works addressed to the Minister of Public Works, under date July 13, asys.—"The works of this undertaking are proceeding with all regularity. Fifteen hundred works of this undertaking are proceeding with all regularity. Fifteen hundred works of this undertaking are proceeding with all regularity. Fifteen hundred works of the works at the statement of the works at the resulting but satisfaction to be felt at the impulse given to the either to be the state of the works, although these is evening but satisfaction to be felt at the impulse given to the either to the different to the control to the either to the cities to the either to the either to be felt at the impulse given to the either to be felt at the impulse given to the tell felt to the state of the works and the sealer of the works at t men and a numerous technical to present figures yet more elo there is nothing but satisfaction services during the last six most the statement in l of the first coupon was due on Jan. 26, but he did not believe it would be paid, only \$50 10. debentures had been applied for, whilst the number of shares applied for by bona fide persons was only 358, and yet the directors went to alot-ment and agreed to pay the vendors 150,0001. In cash and shares. The Simons Reef Company was indebted to the Carta Para Company in the sum of 2004; which they borrowed for the purpose of completing the purchase of the Simons Reef Company as an indebted to the Carta Para Company in the sum of 2004; which they borrowed for the purpose that is it to employ the sum of 2004; which they borrowed for the purpose of completing the purchase of the Simons Reef Sancholders to attempt to the world of the sum of 2004; which they borrowed for the purpose that is the valuable asset the Chairman apoke of at the meeting?—The Chairman apoke of at the meeting?—The Chairman apoke of at the meeting?—The Chairman apoke of at the meeting ?—The Chairman apoke of at the meeting ?—The Chairman apoke of a the property known as the Carta Para property, but that was the company them to the property known as the Carta Para property, but that was the only asset they had. The property coat 15,0001.—50001. in cash, 550001. in cash 550001. in cash state of the property known as the Carta Para property, but that was the company and the property as to have property as to how they should divide 13,0000. In cash and the property as to how they should divide 13,0000. In cash a

tion. It would be clear to everybody that the interests of the company were best served by the issue of debentures than by fresh shares, if preparation was made that a sinking fund should accompany the creation of the debentures, or as to provide for repayment of the amount so raised about the time the gustaness as to provide for repayment of the amount so raised about the time the gustaness as the provide the property of the property of the provides that the directors and that was that under contract made, in the first instance, the contractors were entitled, if they thought proper, to claim them to any shares, or premium upon any shares, which might be issued in the same way; whilst if the company had been less successful, and if the shares had been difficult to place, the contractors would be bound to accept shares in lieu of any further payment. Therefore it was in the interests of the shareholders that the new to be a present to the provent or any applications for debentures made but it might be supposed that the directors would be plad to have amongst the debenture-holders those who had shown confidence in the company by taking shares. In conclusion, the Chairman moved the resolution given above.—

The CHAIRMAN, in reply to a question, said that the directors would issue any shares?—
The CHAIRMAN said the contractor had given notice that he would exercise the power he possessed with regard to claiming the shares, so there would be not for the property of t

PELYN WOOD COPPER MINE.

The first meeting of adventurers was held at the offices of the com-

The first meeting of adventurers was held at the offices of the company, Great Winchester-street, on Monday, to receive the accounts, to elect a committee, to appoint bankers to the company, to make a call, and to transact the ordinary business of the company.

The chair was occupied by Mr. Christophier Robins.

Mr. W. Battye (the secretary) read the notice calling the meeting, and also the two following reports, one from Mr. Charles Thomas, dated Sept. 9, and the other from Mr. Thos. H. Bennett, dated Nov.7:

The Secritary read a statement of receipts and expenditure, which showed that the call of 6d. per share made at the last meeting had been all paid, and had produced 300l. The first cost-sheet of July 30 amounted to 26l. 18s., the second cost-sheet for August 32l. 1s. 7d., there had been paid 200l. for the tack-note on responsibility incurred before the company was formed, the cost-sheet for September amounted to 42l. 11s., and the cost-sheet on Oct. 22, 35l. 15s. 5d.—leaving a balance of 49l. 9s. 10d. due to the secretary.

The Charisman said he supposed they would go on driving the level from the

cast-sheet on Oct. 22, 305. 105. 504. Tearing a secretary.

The CHAIRMAN said he supposed they would go on driving the level from the time being, and he asked what the probable future monthly expenses would be? Mr. BENNETT said that if the drivage were prosecuted as it should be the monthly expenses would be from 40% to 45%. During the last four months they had driven if fms., and, of course, the more they drove the more the cost would

monthly expenses would be from 40%. to 43%. Butting the section would be in proportion.

Mr. W. Gundry: What is the price of the ground?——Mr. Bennett aid 21.78. 6d. There was no timber required as the ground stood alone. (Hear, hear.) A Sharrholder said this was a very favourable feature.

The Chairman: How much money will you want for the next three, four, or five months?——Mr. Bennett said they could get on very well with 44%. or 45%, her month.——Mr. W. Gundry: In that case a 6d. call would be sufficient to carry us on for the next four months.

Mr. Bennett said it would be amply sufficient. He mentioned that he had costeaned one of the lodes, but he had not been able to costean the other two lodes, as he had not been able to obtain leave to go on the surface, and his knowledge of those two lodes were based upon plans which had been placed at his service. On the motion of Mr. WM. Gundry, seconded by Mr. Sewarn, the accounts were received and adopted, and ordered to be entered on the minutes.

On the motion of Mr. WM. Gundry, seconded by Mr. Allan, the following gentlemen were elected the committee—Messrs. Thomas Bremner, C. Robins, Gabbott, Miray, and Clunes.

On the motion of Mr. WM. Gundry, seconded by Mr. Clunes, it was agreed that a banking accounts should be opened at the gowey branch of the Commercial Bank of Cornwall.

The Signettany said the next question was with regard to a call. He had consulted some of the largest shareholders, and they considered that a call of 6d. per share would be sufficient to meet all the requirements till the next four-monthly meeting.

Mr. Allan proposed that a call of 6d. per share be made, payable at the Fowey

salted some of the largest smartenbacts, and they consider next four-monthly meeting.

Mr. Allan proposed that a call of 5d. per share be made, payable at the Fowey branch of the Commercial Bank.—Mr. Bisemers seconded the motion, and said he was agreeably surprised at the smallness of the call.

Mr. W. Battye was then appointed secretary, at a salary of 4l, 4s, per month, Mr. Clumes, purser, at 1l. 1ls. 5d. per month; and Mr. T. H. Bennett, agent, at 4l. 4s, per month.

Capl. Binnert, the agent of the mine, in reply to questions from shareholders, stated that in his experience of twenty-five years of mining, during which he had opportunities of examining many of the great copper mines of the two western counties, including the Devon Great Consols and the South and West Caradons, he had seen nothing that, in his opinion, held out better prospects of having a prosperous mine. At the adit level, where the drivage is on the caunter lode, carrying a leader of grey copper ore, rich for silver, similar to those samples before before them on the table, and this lode is entering a hill ising from 30 to 40 fathoms in the direction of the east and west lodes referred to by Capl. C. Thomas and Capt. J. Nicholls, who inspected the mine. This caunterlode is altogether from 3 ft. to 4 ft. wide, a large portion of which is of the linest quality gossam. It is not only the agents' opinion who have inspected the mine, but the miners of the district who have worked in the adjoining mines are of opinion that at these intersections of the east and west lodes similar results will be found as in the celebrated Lanescot, Fowey Consols, and Pembroke Mines.—A vote of thanks to the Chairman terminated the proceedings.

WHEAL CREBOR MINE.

WHEAL CREBOR MINE.

The ordinary general meeting of shareholders was held at the offices of the company, Gracechurch Buildings, on Thursday,
Mr. J. Y. WATSON, F.G.S., in the chair.

Mr. C. B. PARRY (the secretary) read the notice convening the meeting and the minutes of the preceding meeting, which were confirmed. The accounts were taken as read.

The CHAIRMAN said: Gentlemen, since our meeting on July 5 we have sold 892 tons of copper ore for 2790L; mundic, 175L 10s., charging four months' costs, including 364L 15s. on account of new shaft, against four months' returns, by which we make a profit of \$49L 16s. 6d. But while there are only twelve months' returns in the year, there are, as you are aware, under the four weeks' pay system, 13 months' costs in a year, so that once every year we have the extra month's expenses to bring in; and we are sorry to say it comes rather unexpectedly into these accounts to-day, and, in fact, has been already paid. Thus you have an extra month's clurges to be deducted from the profits of four months, reducing the amount to 426L 5s. id., and the balance of assets over liabilities to 376L 1s. 5d. In the four months ending June 23 we sold 102T tons of ore for 3238L. We have sold for this account, as you will observe, 832 tons only for 2790L; and while the quantity thus falls short of expectation, the last sale realised 200L tess than we anticipated. The expenses of the new shaft bave been heavy. At the last meeting the profit made was equal to 2s. per share, and contrary to my wish, as I stated at the time, those present declared a dividend of 2s. 6d. per share. This time the actual profit, notwithstanding the expense of the new shaft (354L 15s.) and cross-cut at 180 (2002L), is equal to about 1s. 6d. per share. This time the actual profit, notwithstanding the expense of the new shaft (354L 15s.) and cross-cut at 180 (2002L), is equal to about 1s. 6d. per share; but the extra month's cost reduces it to 6d., and it is for the meeting to decide whether they will divide it or not. It

questions that shareholders might wish to put.

Mr. Rosewarne: How many fathoms have you driven on the cross-out?—

Capl. Rowe: 12 Ims. 3 ft.

Mr. Rosewarne: How much are you paying per fathom?—Capt. Rowe: 7/8. 5s.

Mr. Rosewarne: How much are you paying per fathom?—Capt. Rowe: 7/8. 5s.

Mr. Rosewarne: How much are you expect to get ore in the shaft, and you are at the tail end of the big bunch. Do you expect to get ore in the shaft before you drive under the bunch?—Capt. Rowe: We believe the course of ore is dipping east, and that the shaft will meet it.

Mr. Rosewarne: Do you expect to catch the Goldsworthy bunch?—Capt. Rowe said they were at the western end of the great bunch of ore, and they would have to get the shaft down and drive east before they got it. He thought the mine was looking better than ever so far as its future prospects were concerned. While they had lodes worth 40l. and 50l. per fathom they could not say the mine was a very bad one, and he believed that part of the lode was worth from 50l. and 70l. per fathom—still going up into new ground.

Mr. Rosewarne: It is a wonderful course of ore.—Capt. Rowe: There is a very fine, strong, well-looking piece of lode there as you can find anywhere going up into the 198, and I do not suppose that part of the lode has been seen from the top of the rise to surface.

Mr. Rosewarne: In looking at the lode I reckon it to be worth about 60,000l. worth of ore in that piece of ground.—Capt. Rowe: It is a piece of ground which has to be explored, and if it proves what we think 60,000l. would be far short of the mark. In reply to further questions Capt. Rowe said they would require timber for the skip-road. They would not be far from the large bunch of ore by the date of the next meeting, and perhaps they might be in it by that time.

Mr. Rosewarne and he and Capt. Dawe had been underground at Wheal Crebor, and they believed that the mine was only in its infancy, and he thought they would have a great prize in it, particularly when the cross-cut was completed w

THE MERIONETH AGENCY COMPANY.

The statutory meeting of shareholders was held at the offices of the

THE MERIONETH AGENCY COMPANY.

The statutory meeting of shareholders was held at the offices of the company, Union-court, Old Broad-street, on Thursday,

Mr. John Elliott in the chair.

The notice calling the meeting was read by the SECRETARY.

The CHARMAN said that this being a formal statutory meeting, held in compliance with the Act of Parliament, the business to be transacted to-day was merely formal; but Mr. Readwin had been kind enough to attend, and would be able to explain what had been kind enough to attend, and would be able to explain what had been done. But he (the Chairman) would first make a few preliminary remarks at to what the company really was, and why it was founded. As the company really was, and why it was founded. As the company really was, and why it was founded. As the company really was, and the preliminary remarks at the work of the company really was, and why it was founded. As the company really was, and why it was founded. As the company really was, and why it was founded. As the company really was, and was the inventor of a process. The process of the company really was, and was the inventor of a process. The purpose of testing and deciling the merits of Mr. Readwin's process. That expending some portion of gold; but the former covers, after spending some 30,000, upon it, inding that they could not get a remained to process. That work was commenced four or five mounts ago, and the directors were now able to announce to the shareholders able returns from that source alone. In consequence of the terribe state of the huldings and machinery a long time had been consumed in effecting repairs, and the process. It was found that under an old Act of Parliament (Act V. William and Mary) the Crown india the power to take all the gold-bearing ores in Wales upon process. It was found that under an old Act of Parliament (Act V. William and Mary) the Crown india the company had to give a process. It was found that under an old Act of Parliament (Act V. William and Mary) the Crown in the company

throughout. He knew of nothing in this country like it except in the case of Parya Mountain, and that was not so extensive. Judging from the present state of the bottom of the mine and its improvement he believed by a little sinking the mine would become much richer. There was plenty of water power. Coming to the question of gold, he said his problem was to get enough gold to pay mining costs. That had never been tried before. He might not altogether succeed, but he though the should, and he certainly meant to do all he could. Of course, the gold was not equally distributed. He had seen gold there in which where points as big as the end of his finger. How often it occurred in peckets he did not know. When he treated 2 tons on his own account they yielded roughly and carclessly treated about 5 dwis, per ton, and if it did that it would pay mining costs. He did not profess his plan would get all the gold out; he knew it would not, but inasmuch as it could be concentrated in the ordinary way by the shade ing table it would retain value which it never retained before. He had made a verbal arrangement with Mesers. Vivian that if there was contained gold in the stuff they would make an allowance for it. This had never been done before. He had on one occasion got as much as at the rate of 11 ozs. of gold to the ton. People would say, "You can fairly sample all that stuff to know approximately what it is worth." This he denied altogether, and he denied it 20 years ago, for it would involve what could never happen—that every particle of gold must be of equal size, and equidistant one from the other, which under no natural circumstances ever took place. The problem they had to solve was whether the amalgamable gold would give a profit on the working, leaving the residue as contained gold to be death with in any way other persons night treat it.

The CHAIRMAN : What I gather is that your improved system of preparing quicksilver amalgamates a large proportion of the gold which is in the ore, but the tailings you can arrang

The Chairman said he understood they could sell the pyrites separately for special purposes.

Mr. Readwin said that was so, and they would probably fetch about as much as the current rate of Spanish ores, which was about \$0s, per ton, and it could be got out at a cost of about 5s. per ton altogether.

The Chairman, in reply to Mr. Browne, said about 500% had been spent on machinery, and they could pass through about 10 or 12 tons a day. He expected to get ½ oz. of gold per ton. The total expenditure had been 2500%, all privately subscribed. The directors thought that the issue of 2000 1% shares would give them ample to try this great experiment, and he hoped shortly to announce all the success they anticipated. He might mention that one important point in connection with this process was that no robbery of gold could be effected, inasmuch as by a contrivance of Mr. Readwin the gold could not be got at.

Mr. Readwin said it was right to mention that his machine was an improvement upon the patent of Mr. Bashley Britain. The quicksilver which he (Mr. Readwin) used in the process was specially treated by himself, and he used about a tithe of the quantity, and did not lose any of it.

EAST POOL MINING COMPANY.

EAST POOL MINING COMPANY.

The quarterly general meeting of shareholders was held at the mine, on Monday,—Mr. G. A. MICHELL in the chair.

The notice convening the meeting having been read the statement of accounts showing a profit on the three months' working of 77674. 12s. 3d., and a total credit balance of 10,2324. 10s. 10d., out of which the committee proposed a dividend of 75204. (14. 3s. 6d. per share), leaving 27124. 10s. 10d. to carry forward. The report of the managers—Capts. John Maynard and C. F. Bishop—and agents, Capts. John Penhale and S. Curtis—was submitted. In referring to the various points of operation it was stated that since the last meeting they have communicated with the winze sunk from the 16c. This level is being driven by a boring machine. The lode at present is about 8 ft. wide, and worth for tin 604, per fathom. We have a winze sinking in the bottom of this level near the eastern cross-course which is down 7½ fms. This will soon communicate with the above-mentioned cross-cut. The lode in the winze is worth 32, per fathom. At the 160 we have stwo stopes working, one east and one west of winze, worth 302, per fathom each stope. The 140 is driven west from Tredimick's winze, and is worth for fin and copper 304, per fathom. The 120 is driven east from the western cross-course about 40 fms., and since the last meeting we have sunk a winze and communicated with the 130. The lode is worth 122, per fathom. This has opened a very important part of the mine for copper. The valuations in this report are made at per cubic fathom.

The CHAIRMAN congratulated the shareholders upon his having

seated with the 130. The lode is worth 12t per fathom. This has opened a very important part of the mine for copper. The valuations in this report are made at per cubic fathom.

The CHAIRMAN congratulated the shareholders upon his having as good a report to present to them as they had ever received before; indeed, he believed it was the best. He did not think it was necessary for him to say much as regards their operations, for they spoke for themselves. He did hope at one time during the past 12 weeks that they would have returned the whole of the tin raised, but unfortunately for them they had a "let" at the stamps which prevented their doing so. Had they returned the whole of their tin they could have comfortably given a dividend of 25s, per share and carried forward a very handsome balance to increase their reserve funds. The mine was now becoming an adult, if he might use the expression, it was no longer in the minority, and it was now speaking for itself. He believed, strictly speaking, that their better days were to come, not only as regards the results of the mining operations, but also as regards a better price for minerals. He was convinced of one fact, that the demand for in had overtaken the supply, and the demand was really now in excess of the supply. It was consoling to know that a gradual inroad was being made in the stocks of the analysis of the supply. The mineral supply and the demand of a dividend of 1. 3s, do, per share, —Mr. Harkis seconded the motion, and it was unformed the supply agreed to.

The that that had that had fold on the profit shown that day. He consolided by moving the adoption of the report and accounts, and the declaration of a dividend of 1. 3s, do, per share, —Mr. Harkis seconded the motion, and it was unformed the supply and the stamps this hat quarter 315 tons 3 ewts. of tin, and they had sent to the stamps this hat quarter 315 tons 3 ewts. of tin, and they had sold 302 tons 4 ewts, lleaving a balance of 12 tons 18 ewts, to be returned. The tin dresser had been sold lan at per cubic fathom.

The CHAIRMAN congratulated the shareholders upon his having

THARSIS SULPHUR AND COPPER COMPANY.

THARSIS SULPHUR AND COPPER COMPANY.

An extraordinary meeting of shareholders was held on Wednesday in Glasgow (Mr. Charles Tennant, M.P., presiding), for the purpose of considering special resolutions providing—first, that the company may from time to time, by special resolution, modify the conditions contained in the Memorandum of the Association, so as to reduce its capital to such an extent and such manner as may be determined; and, secondly, to modify the conditions contained in the Memorandum of Association so as to subdivide its shares into shares of smaller amount than is fixed by the Memorandum.

The Chairman, in moving a resolution to the effect thus indicated, said: We are met to-day to take the steps which are necessary to carry out the proposals indicated by me as Chairman of the board at our annual meeting held on June 22 last. These proposals are, as you are aware—1st. To consolidate the U. shares by calling up 1t., making them thus 8t. paid, and giving in exchange for five of

apity that we occarred a 25. dividend last time; but it was the wish of the apity that we occarred as the tor of 11 we had divided 25. then, we should have been able to a declarat better of 11 we had divided 25. then, we should have been able to a contract the second of the second

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venient and costly, involving an extra stoppage for stocktaking on the mine and at our various works in this country, and thus interfering with the general business of the company. Our annual meeting will be held in April, and our dividend paid in one sum in May as formerly.—The motion proposed by the Chairman was carried unanimously, as was also the second motion, with reference to the subdivision of shares. on of shares.

THE EMMA SILVER MINING COMPANY.

A special meeting of shareholders was held on Monday, at the Cannon-street Hotel, London,—Mr. ALEX. MACDOUGALL in the chair,—for the purpose of calling over the List of Contributories at the time when the company went into liquidation. It was stated that the object was with the view to issue new shares, in order to form a new company, to those shareholders who were entitled to shares in the

company, to the company.

Mr. F. W. Snell, solicitor, read over the list, which he stated numbered 1444, representing 50,000*l*. capital of 20*l*. shares fully paid-up. There was, therefore, no further liability on the part of the shareholders. The name of the new company would be "The New Emma

THE NEWQUAY MINING COMPANY.

The first ordinary general meeting of this company was held on Thursday at the offices, Great George-street, Westminster,

Mr. FIDLER in the chair.

Mr. SKINNER (the Secretary) read the notice convening the

meeting
The CHAIRMAN said that this was the statutory or first meeting.
The directors and there was none but formal business to transact. The directors had gone through all the documents and papers connected with the mines, and the registration had been completed. He and his colhad gone through all the documents and papers connected with the mines, and the registration had been completed. He and his colleagues had visited the mines and inspected underground and above, and were well pleased with the property they had taken. As would be seen by the prospectus, they had associated with them Mr. R. W. Rickard, who, perhaps of all men he knew, had the largest experience as a metalliferous miner. They had been highly pleased with the way in which the matter had been put before them, and he had given estimates of the expenses of the various mines they intended to prosecute. He (the Ohairman) had no doubt that good results would follow, and that in a short time they would be able to report to the shareholders that they were in a very satisfactory condition. He (the Ohairman) hen read the report of Mr. Rickard. Cartain works were springing up in the neighbourhood which no doubt would tend to develope the mines in a manner which they little expected, and they would find a market for the iron ore, which he was sure would pay the company handsomely. Some of the shareholders, more particularly those in Liverpool, were interested in the Cornwall Minerals Railway, and might be of assistance to this company in using what influence they could in order to effect a reduction of the rates, which appeared to be very excessive. He thought a reduction would not bring about a decrease, but an increase in the railway company's receipts. Capit. RETALLACK, who said he had watched the mines with the greatest interest, fully endorsed what Mr. Rickard had said. He was perfectly certain that as far as Deer Park was concerned, in twelve months they would have another West Chiverton Lead Mine.

The CHAIRMAN added, that Capt. Rickard, contrary to his custom, contemplated taking shares in the mines because he had such faith in them.

Capt. RETALLACK read a letter which had been received from one of their local agents, stating that he was very much pleased with the mines dead sendent them.

Capt. RETALLACK read a letter

overies.

T. DEFF MORISON said he went down on behalf of the Liverpool shareholders examined everything, and found all in very good order. Everything had done with a great amount of regularity, and he thought they had every no to congratulate themselves on the acquisition of the property.

CHAIRMAN said that some of the largest shareholders in Liverpool were so evel with the reports that they were increasing their holding in the company, and ample space for two or three times the operations they intended to retake.

undertake. Capt. Armstrong asked whether the Chairman had been on the mines and knew them?—The Chairman replied in the affirmative. He knew something of machinery, and that it was all in first-class order, and the only pumping machinery which they would require would be for the Deer Park Mine, which was not a heavily watered mine.

A SHAKEHOLDER: What success have you had in allotting the shares? The CHAIRMAN replied they had allotted up to 15,000, and promises of another 5000, but they did not want to issue more shares. They had sufficient tapital without any returns to carry them on for over two years.

In reply to a further question, the CHAIRMAN said that any future issue of shares, it it were decided on, would be first offered pro rata to the existing shareholders.

shares, if it were decided on, would be first offered pro rata to the existing shareholders.

A Sharkholder thought they were fortunate that the vendor did not take any of his payment in cash, as in some cases, and then leave the concern.

Colonel Carefer said that when the name of Mr. McGregor was mentioned to him he had confidence in the concern, as he knew the stock from whence that gentleman came. In fact, he knew his name ever since that remarkable circumstance happened on the broad ocean—the loss of the Kent by fire. He thought that Mr. Duncan McGregor was the child, the infant that was first rescued from that awful conflagration. Sir Duncan McGregor was a man of extraordinary high character and high repute and probity, so that he thought they were safe in the hands of his son. With regard to the officers and all those who were concerned in the active duties connected with the mine for the character and energy they had displayed, and above all probity, he thought they represented the old type of their future. He moved a vote of thanks to the Chairman and directors for the manner in which they had looked after the Interests of the shareholders.

The motion having been seconded and carried nem, con., the Chairman said the directors were not entering on this mine without knowing what they were about. He believed there were few mines in Cornwall that would be better generalled, and they had appointed good men underground.

PROVINCIAL STOCK AND SHARE MARKETS.

PROVINCIAL STOCK AND SHARE MARKETS.

CORNISH MINE SHARE MARKET.—Mr. S. J. DAVEY, mine share-dealer, Redruth (Nov. 10), writes:—Our market has been dull throughout the week. Prices of several shares declined, and very little business has been done. Polcoaths have fallen 2½, East Pools have pretty well held their own since the declaration of a 23s. 6d. dividend. To-day a few Dolcoaths, Carn Breas, East Pools, and South Frances, changed hands, but other shares are neglected To-day's prices are as follows:—Blue Hills, 2½ to 2½; Carn Brea, 28 to 23g.; Cook's Kitchen, 25 to 25g.; Dolcoath, 34½ to 85; East Pool, 41½ to 42; Killifreth, 28s. to 30s.; Mellanear, 4½ to 4½; New Gook's Kitchen, 5½ to 5½; New Kitty, 1½ to 2½; North Busy, 15s. to 17s.; Penhalls, 1 to 1½; Phenix, 3½ to 4; Pedn-an-drea, 3½ to 18; West Mook's Kitten, 8½ to 19½; West Basset, 13 to 13½; West Frances, 17½ to 18; West Kitty, 8½ to 19½; West Basset, 13 to 13; West Frances, 17½ to 18; West Kitty, 8½ to 8½; West Pecor, 12½ to 13; West Frances, 17½ to 18; West Kitty, 8½ to 8½; West Pecor, 12½ to 13; West Frances, 17½ to 18; West Frances, 25; Wheal Basset, 5 to 5½; Wheal Frances, 17½ to 19; Wheal Basset, 5 to 5½; Wheal Pecoro, 12½ to 13; West Pecoro, 12½ to 12½; Wheal Grenville, 1½ to 1½; Wheal Grenville, 1½ to 12; Wheal June, 25s. to 27s; Wheal Pecoro, 12 to 13; Wheal Kitty (8t. Agnes), 1½ to 12½; Wheal Grenville, 1½. Denter the production of the produc

Mr. J. H. REYNOLDS, stock and share broker, Redruth (Nov. 10), writes:

Messrs. ABBOTT and WICKETT, stock and share brokers, Redruth (Nov. 110). — Messrs, Almorr and Wickett, stock and share brokers, Redruth (Nov. 10), write:—Very little business has been done in the past week, and a tendency to realise has been apparent, in spite of the improved prospects of the tin murket, At East Pool a dividend of 75204, was declared on the 8th inst. Closing quotations annexed:—Blue Hills, 2½ to 3; Carn Brea, 28 to 28½; Cook's Kitchen, 24½ to 25½; Dolcoath, 84½ to 85½; East Pool, 41½ to 42½; Killifreth, 1½½ to 1½; New Kitty, 2 to 2½; Kwey Cook's Kitchen, 5 to 5½; North Busy, ½ to 1; Pedn-au-drea, 3½ to 3½; Santa Gertrude, 170 to 175; South Caradon, 50 to 60; South Condurrow, 10½ to 10½; South Cry, 9½ to 10½; South Frances, 16½ to 16½; Tincroft, 19 to 20; West Basset, 13 to 13½; West Kitty, 8½ to 9; West Poldice, 5½ to 6; West Peevor, 12½ to 13; West Frances, 17½ to 18½; West Seton, 15 to 16; Wheal Agar 14 to 14½; Wheal Basset, 5 to 5½; Wheal Boys, 2 to 2½; Wheal Grenville, 12 to 12½; Wheal Jane, 1½ to 1½; Wheal Peevor, 12½ to 13; Wheal Prussia, 1½ to 2; Wheal Uny, 3½ to 3½; West Providence, 1½ to 1½; West Toigus, 24 to 26.

— Mr. M. W. BawDax, Liskeard (Nov. 10), writes:—The mining market con-

of 3/4; West Providence, 1½ to 1/3; West Toigns, 24 to 25.

— Mr. M. W. BAWDEN, Liskeard (Nov. 10), writes:—The mining market continues dull and devoid of animation, although the tin standard is still in the market, and several of the leading high priced shares are being offered at the market, and several of the leading high priced shares are being offered at leading high priced shares are leading high priced

Agar, 14% to 14%; Wheal Basset, 5% to 6; Wheal Crebor, 2% to 3; West Tolgus, 22% to 23; Wheal Grenville, 12% to 12%; Wheal Hony and Trelawny, 2% to 3; Wheal Kitty, 13% to 2; Wheal Jane, 1% to 1%; Wheal Peevor, 12% to 13; Wheal Uny, 3% to 4.

to 3; Wheal Kitty, 1½ to 2; Wheal Jane, 1½ to 1½; Wheal Peevor, 12½ to 13; Wheal Uny, 3½ to 4.

— Mr. John Carter, mide sharedealer, Camborne (Nov. 10), writes:—The improvement which has taken place in the price of tin during the week has had little or no effect in enhancing market values of Cornish mines, which, on the contrary, have almost daily shown a decline in quotations. There has been of late no demand for investment, or next to none; and, consequently, market speculators have a large amount of stock on their hands. East Pool declared a dividend of 23s. 6d. on the 7th inst; shares declined to 41, but have since recovered to 41½ buyers. Dolcoaths declined to 34½ sellers, Carn Breas to 28½, Fincrofts to 19½, Killifreths to 30s., Pedn-an-dreas to 3.2 ks. 9d., West Basset to 13½, West Peevor to 13, Wheal Agar to 14½. West Tolgus suddenly jumped to 27 on a reported discovery in the \$5 fm. level, but closed to-day with only sellers at quotations. Closing prices annexed:—Carn Brea, 28 to 28½; Cook's Kitchen, 24 to 25½; Dolcoath, 84 to 85; East Pool, 41½ to 42; East Blue Hills, ½, to ½; Killifreth, 29s. to 31s.; Mellanear, 4½ to 4½; East Blue Hills, ½, to 5½; South Caradon, 50 to 55; South Condurrow, 10½ to 10½; South Crofty, 10 to 10½; South Frances, 16½ to 17; Tincroft, 19½ to 13½; West Basset, 13 to 13½; West Frances, 17½ to 18½; West Seton, 14 to 15; West Tolgus, 23 to 25; Wheal Agar, 14 to 14½; West Beevor, 12½ to 13½; West Poldice, 5 to 1½; Wheal Jane, 1½ to 1½; Wheal Uny, 3½ to 13½; Wheal Terenville, 11½ to 1½; Wheal Uny, 3½ to 3½; West Kitty, 1½ to 1½; Wheal Jane, 1½ to 1½; Wheal Jane, 1½ to 1½; Wheal Jane, 1½ to 1½; Wheal Uny, 3½ to 3½; West Kitty, 1½ to 1½; Wheal Jane, 1½ to 1½; Wheal Jane, 1½ to 1½; Wheal Jane, 1½ to 1½; West Poldice, 1½ to 1½; West Poldice, 1½ to 1½; Wheal Jane, 1½ t

MANCHESTER .- Messrs. JOSEPH R. and W. P. BAINES, sharebrokers, MANCHESTER.—Messis. Joseph R. and W. P. Baines, sharebrokers, Queen's Chambers, Market-street (Nov. 10), write:—Again the week's business has been curtailed by one day, owing to the holiday for Lord Mayor's Day—an observance which it has not been usual to celebrate as a closed day. Notwithstanding this, however, a very tolerable number of transactions are reported, and spread over more companies than has been the case lately. In cases where other than solitary dealings have been marked, latest prices are in most instances advanced. The tendency most noticeable—and this remark applies to all the classes reported upon—seems towards better figures, a very buoyant tone prevailing all round.

Banks, though producing a few dealings, do not show any great activity. Quotations for the local concerns remain stationary and steady, whilst Bank of Liverpool are 36, and Nationand Provincial 14 higher. There are no adverse changes.

BANKS, though producing a lew dealings, do not show any great settiffy. Quotations for the local concerns remain stationary and steady, whilst Bank of Liverpool are \(\frac{1}{2} \), and Nationand Provincial \(\frac{1}{2} \) higher. There are no adverse changes.

INSURANCE.—Several lots have changed hands, but no amount of business has been done in any one concern. Changes of quotations show advances in slight majority, but with marked preponderance. Higher: Manchester Fire Inurance, \(\frac{1}{2} \), solider Insurance and Steam Power, \(\frac{1}{2} \), Eiverpool and London and Globe, \(\frac{1}{2} \); and Maritime and British and Foreign Marine, 1-16 each; Lower Ocean Marine, \(\frac{1}{2} \), sen, 1-16; and underwriters' Association, 1-16.

COAL, IRON, &C., AND MINING.—This class has attracted most attention, and exhibits most movements, both as regards business done and changes in figures. Though this market is not so excitedly advancing as was the case a few weeks ago, a steady and discriminating upward movement is to be moted, resulting in a number of favourable changes, though few of any great moment; whilst the advance alterations are few and unimportant. Higher: Telegraph Construction and Maintenance, 2; West Cumberland Steel, &c., 1; Tredegar Coal, &c., A. 14; Tharris, Sulphur, &c., \(\frac{1}{2} \); United States Rolling Stock, \(\frac{1}{2} \); Tredegar Coal, \(\frac{1}{2} \), \(\frac{1}{2} \); Browns, \(\frac{1}{2} \); and a few others of minor importance. Lower: Bolckows, 12L paid, \(\frac{1}{2} \); Browns, \(\frac{1}{2} \); and \(\frac{1}{2} \); in Globe ordinary) are all for the better, but few transactions are reported. Anglo ordinary are; ditto, preference, \(\frac{1}{2} \); in Globe ordinary) are all for the better, but few transactions are reported. Anglo ordinary are; ditto, preference, \(\frac{1}{2} \); in Globe ordinary) are all for the better, but few transactions are reported. Anglo ordinary are; ditto, preference, \(\frac{1}{2} \); in Globe ordinary) are all for the bet

HULL .-- Mr. W. FOWLER SUTTON, stock and share broker, St. Mary chambers (Nov. 10), writes:—The stock markets were decidedly good early in the week, and English rails looked like advancing still good early in the week, and English rails looked like advancing still further. To-day, however, they have eased off on realisations, but the probabilities remain in favour of higher prices shortly. Notwithstanding adverse circulars Canadians keep firm, and one or two good traffics would speedily tell upon their quotation. To-day's Trunk traffic shows a small increase, but the comparison is against a low "take" last year. American rails sluggish. A good advance was expected before now, and appears to be still looked forward to. Local stocks unaltered. Hull Banks, 12½; London and Yorkshire Bank, 32s.; Hull Docke, 93; Hull Trams, 9; Hull Gas, 55; British, 3½. Earle Shipbuilding, 40 paid, 25. Hull and Barnsley Rails, 24. paid, 1½ to 1½.

SCOTCH MINING AND INDUSTRIAL COMPANIES SHARE MARKETS.

STIRLING .- Mr. J. GRANT MACLEAN, sharebroker and ironbroker (Nov. 10), writes:—During the past week the markets have steadily improved, owing to the encouraging reports of trade and the easier

(Nov. 10), writes:—During the past week the markets have steadily improved, owing to the encouraging reports of trade and the easier state of the money market.

In shares of coal, iron, and steel companies the movements for the week comprise advances of 15s. per share on Marbella Iron; 3s. 6d. on Clyde Coal; 3s. 9d. on Ebbw Vale; 2s. 6d. on Groba Vale; as. 6d. on Clyde Coal; 3s. 9d. on Ebbw Vale; 2s. 6d. on Clyde Coal; 3s. 9d. on Ebbw Vale; 2s. 6d. on Clyde Coal; 3s. 9d. on Ebbw Vale; 2s. 6d. on Clyde Coal; 3s. 9d. on Ebbw Vale; 2s. 6d. on Clyde Coal; 3s. 9d. on Ebbw Vale; 2s. 6d. on Clyde Coal; 3s. 9d. on Ebbw Vale; 2s. 6d. on Clyde Coal and Chillington Iron. On the other hand; Steel Company of Scotland have declined 5s. per share; Bolckow Vaughan, 2s. 6d.; and Glasgow Port Washington, 1s. 6d. In the Scotch pig-iron market the price of warrants has advanced from 49s. 7½d. to 51s. 1d., chiefly owing to rumoured strikes and the favourable Board of Trade return. Anglo-Bilbao Steel offered; Benhar Coal are 11s. 6d. to 12s. 6d.; Bolckow, Vaughan, 285; Chillington Iron, 6ss. 9d.; Clyde Coal improved from 6ss. to 75s., but are now about 67s.; Cardiff and Swansea Coal, 49s. to 56ss.; Chatterley iron, 6 to 8; Ebbw Vale; 103f to 11½; John Bagnall and Sons, 5s. to 10s.; Llynvi and Tondu, 10 to 11; ditto, pref., 5s. dis. to par; Marbella Iron improved from 97s. 6d. to 51. 18s. 9d., and are now about 5½; Newport Abercarne, 8 to 8½; Omea and Cleland, 28s. 6d. to 29s. 6d.; Rhymney Iron, debentures, 103 to 106; Shotts Iron, 45 to 50; Steel Company of Scotland, 9½; and West Cumberland, 13 to 14.

In shares of foreign copper and lead concerns, the tendency of prices continues upwards. Rio Tinto have advanced 17s. 6d. per share; Tharsis (New), 12s. 6d.; Tharsis (104, paid), 8s. 9d.; Panulcillo, 5s.; Canadian Copper, 1s. 6d.; and Huntingtons, 1s. At a meeting of the Tharsis Company vesterday the propesals for alteration in the capital were unanimously agreed to, and the date of belancing was altered to Feb. 28, so that the divide

to 1181, Great North of Scotland from 601 to 601, North British from 92% to 93%. Canadian stocks have improved on the termination of the "war of rates." Clydesdale Bank has risen from 222 to 225, and Union from 221 to 221%. Bank of Scotland from 292 to 293, Commercial from 33 to 255. National has receded from 280 to 279%. Standard Insurance shares have receded from 73 to 72 and Northern from 54% to 83%. Clyde Coal shares, after advancing from 66s. 6d. to 74s. 6d., have relapsed to 67s. 6d. Marbella Iron have had numerous fluctations, and at 511/16, show a rise of 5s.

IRISH MINING AND MISCELLANEOUS COMPANIES' SHARE MARKET.

MARKET.

DUBLIN, Nov. 10.—As a rule rails continue dull. Belfast and Northern Counties are 2s. 6d. easier, at 43\frac{1}{2}. Great Northern was 15s. lower than previously, but fairly firm at 115. Great Southern are better, being rallied 5s., to 109\frac{1}{2}. Great Northern and Western repeated 126, and Derry Stock produced 170. Great Southern Forper Cent. Preference is 10s. easier, at 108\frac{1}{2}, while the Four per Cent. Debenture realise previous price—110; Derry Five per Cent. Stock marking 130. In the railway market there has been a reaction in some instance, following the recent smart advance. Great Northern has fallen 50s.; and Midland Great. Western, after having advanced 10s., to 84\frac{1}{2}, closed 12s. 6d. lower, are in fair request, establishing an advance of 15s. Belfast and Northern Counties and Cork and Bandon, at 43\frac{1}{2}, and 36 respectively, are each 30s. higher.

SORTRIDGE COPPER MINING COMPANY.

The following report on the above mine by Capt. Charles Thomas, of Cook's Kitchen Mine, Camborne, has been obtained by a share-holder for his own information, and will no doubt be interesting to

of Cook's Kitchen Mine, Camborne, has been obtained by a shareholder for his own information, and will no doubt be interesting to other shareholders:—

*New, 4,—At your request I have again inspected Sortridge Mine, and beg to make the following remarks:—Since my last inspection the shaft has been cased and divided to the 30. The 30 has been drained and cleared, and over 100 fms. of the adit have been cleaned up. This will shortly be entirely cleared, when a few fathoms driving north will enable you to intersect the tin lode 40 fms. from surface, and just beneath the ancient surface working referred to in my previous report. I went down these old workings to-day and found the lode has been taken away 5 or 6 ft. wide for several fathoms in length and height. I suggested to the manager that 15 or 20 tons of stuff be broken here and sampled at once in order to estimate the value of the lode at this point. I very carcilly took samples of 20 to 25 tons of tinstuff broken in the 30, and also of 20 tons estelected burrow stuff. The latter I find will produce 36 lbs. of in to the ton of stuff, and the former 25 lbs. The tinstuff from the new western shaft produces 48 lbs. of thin to the ton, as stated in my last report. I should recommend you for the present to confine your attention to the tin lode by means of the deep adit level, and communicating from the 40 to the old workings at surface. This should be done as rapidly as possible. You will then be enabled to form a correct idea as to the value of the tin lode, and will be better able to judge what machinery and appliances will be required for future working. The cost will probably be about 150t, per month, and the time required (say) six to nine months. In conclusion, I find nothing to alter my opinion that you have months. In conclusion, I find nothing to alter my opinion that you have in Sortridge a promising sett, and one which really deserves immediate develope ment.—Charles Thomas.

FOREIGN MINES.

TOREIGN MINES.

ALAMILLOS.—Oct. 26: In the 49, driving west of San Felipe's slaft, the lode is producing atones of ore, but not ambient to value. The lode in the 40, driving east of Eusebio's winze, is smaller, being valued at 1 ton per fathom, and the granite is harder for driving through. In the 130, driving east of Taylor's engine-shaft, there is a strong lode, which has somewhat in proved in value, producing 1 ton of ore per fathom. The lode in the 50, driving east of San Victor's shaft, has considerably fallen off in value, its present work being 1½ ton per fathom. In the 50, driving west of San Victor's shaft, a small east of San Victor's shaft, a small east of San Victor's shaft, a small east of San Victor's shaft, a present work being 1½ ton per fathom. In the 50, driving west of San Victor's shaft, is present work lead. The driving of the 60, west of San Victor's shaft, is resumed, and we hepe soon to find the shoot of ore which the level below has passed through. The lode in the 50, driving west of Judd's cross-cut, is small and unproductive. In Sagasta's winze, sinking below the 115, the lode (valued at ½ ton per fathom. In Sagasta's winze, sinking below the 115, the lode (valued at ½ ton per fathom is producing less lead orc. 2: The lode in the 60, driving cast of Cox's engine-shaft, is very regular, consisting chiefly of enthorate of lime, and yielding good stones of ore worth 1 ton per fathom. The 50, driving west of Cox's engine-shaft, is passing through a piece of unproductive ore ground. The lode in the 20, driving east of Taylor's engine-shaft, is compact and regular, and of a promising appearance, producing 1 ton of ore per fathom. In the 30, driving west of Saylor's engine-shaft, was slightly disarranged by cross-joints, but is again improving, and produces 1, ton in the 20, driving west of San Pedro's shaft, is small and the producing with the same direction, the lode is a very open, and yielding good stones of each of the control of the control of the control of the control of the control

to value

LINARES.—Oct. 26: The lode in the 115, driving cast of Warnes's engine shaft, is large and strong, yielding good stones of ore. In the 13c, driving the same direction, the ground is hard and the lode unproductive. The loin the 13c, driving west of Warnes's engine-shaft, contains a little ore, is nothing to value. In the 115 fathom level, driving west of Warnes's engine-shaft, the lode (worth 1 ton perfathom) has fallen off a little in value durithe past fortnight. The 135 fathom level, driving west of Peili's engine-shaft is opening up moderately productive ground at 1 ton of ore per fathom. To lode in the 12c, driving west of Peili's engine-shaft, is small, consisting quartz and lead ore worth ½ ton per fathom. In the 13c, daiving east of Peil engine-shaft, there are stones of ore in the lode, but nothing of any actual valt. The lode in the 12c, driving east of Peili's engine-shaft, is disarranged and unput. engine-shaft, there are stones of ore in the lode, but nothing of any actual value. The lode in the 120, driving east of Pelli's engine-shaft, is disarranged and unpix-ductive. The 105, driving east of San Francisco shaft is opening up a good length of productive ground worth 2 tons per fathom. No. 20 winze, sinking below the 100, is holed to the 115, and is valued at 5 tons per fathom.—Quinientos Mine: In the 100, driving east of Taylor's engine-shaft, there is a large kindly lode consisting of carbonate of lime of lead ore producing 2 tons per fathom. The lode in the 90, driving in the same direction, has greatly improved and is valued at 3 tons per fathom, Alcayar's winze, sinking below the 55, and produces 1 ton per fathom. Hernandez winze, sinking below the 80, and worth 1 ton per fathom, is situated east of Taylor's engine shaft, and in advance of the 90.—Majada-Honda Mine: The 45, driving east of Enriquetas shaft, has passed through a good shoot of ore, but the lode is poorat present. The lode in the 70, driving east of San Francisco shaft, is small, but very compact and regular. The 70, driving west of cross-cut No. 3 lode, has been idle for some time, and the men put to assist the pitmen.

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We understand Mr. Currie Gregory, F.G.S., goes next week to Western America again to inspect several gold and silver properties

HOLLOWAY'S OINTMENT AND PILLS-HEALTH'S DEFENCES .- N save the strength can with impunity pass through the sudden transition wet to dry, from cold to muggy weather so prevalent during the late a and early winter months. Influenza, bronchitis, coughs, sore throat, or a will attack those most watchful of their health; but they can readily are of these complaints by rubbing Holloway's oliment twice a day upon tadjacent to the affected part, and by assisting its corrective action with

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t week to properties Lectures on Bractical Mining in Germany.

CLAUSTHAL MINING SCHOOL NOTES-No. CLXXXIII.* BY J. CLARK JEFFERSON, A.R.S.M., WH. SC.,

Mining Engineer, Wakefield. (Formerly Student at the Royal Bergakademie, Clausthal.) [The Author reserves the right of reproduction.]

The shape of the body of pit corves is very various, depending on local circumstances. A perfectly cubical form is that which is the most economical in material, but will generally be too high and too broad, and besides is inconvenient for handling by the miner. The best shape appears to be that which is approximately square in cross section, and rectangular in longitudinal section; the ratio of the length, breadth, and height being about as 4:3:3, or more exactly 11:9:9. The greater the length the more easily is the corf handled by the miner in going round curves, and in getting it on to the rails best shape appears to be that which is approximately square in cross section, and rectangular in longitudinal section; the ratio of the length, breadth, and height being about as 4:3:3, or more exactly 11:3:3. In order the more suggest that the comparison of the property of the more suggest that the property of the more suggest that the property of the property of the cort to tjo over. The "belaines" of Liega era approximately of the cort to tjo over. The "belaines" of Liega era approximately of the above form, with the exception that the sides and ends are bellied property of the property of the cort to tjo over. The "belaines" of Liega era paperoximately of the above form, with the exception that the sides and ends are bellied on the centre of smaller breadth to the level of the axis. In case the centre of smaller breadth to the level of the axis. With the ordinary rectangular section the wheels are placed sometimes beneath and sometimes at the side of the body. The latter has a strength of the cort is the case of the body. The latter has a consequently requires wider roadways. In order to obtain the advantage of the fullest width with a given gauge of the rails and consequently requires wider roadways. In order to obtain the advantage of the fullest width with a given gauge of the rails various arrangements have been resorted to. In some the body, which is rectangular is socious above the wheels, and of the full breadth of the axis. In some of the wheels, and of the full breadth of the axis. In some of the wheels, and of the full breadth of the axis. In some of the wheels, and of the full breadth of the axis. In some of the wheels, and of the full breadth of the axis. In some of the wheels, and of the full breadth of the axis. In some of the wheels, and of the full breadth of the axis. In some of the wheels, and of the full breadth of the axis. In some of the wheels, and of the full breadth of the full breadth

than the other.

As material both wood and sheet-iron are used in the construction of pit corves. The wood used for the sides varies from \(\frac{1}{4} \) in. to 1\(\frac{1}{4} \) in. in thickness: 1 in. seems to be the most general. For the bottom of the corf the thickness varies between 1\(\frac{1}{4} \) in. to 2\(\frac{1}{2} \) in., and for the frame from 2\(\frac{1}{2} \) in. to 4 in. in thickness. The corners are generally covered on the inside and outside with sheet-iron, angle-iron being often used for the inside. The top edge of the ends are also strengthened and protected by a flat bar of iron, running from one side to the other. In place of wood sheet-iron may be advantageously used for the bottom of the corf, it being stiffened by two or three pieces of thick wood.

for the bottom of the corf, it being stiffened by two or three pieces of thick wood.

When sheet-iron is used as material for construction the thickness varies from \(\frac{1}{2} \) to \(\frac{1}{2} \) in, the heavier plates being used for the bottom. The plates are connected at the corners by means of angle iron, and the upper edges are stiffened by flat bar iron rivetted to the sheet iron. In many cases the sheet iron corves have no frame, the bearings for the axles being bolted direct to the bottom of the corf, which is strengthened by two flat bars above and parallel to the axle. When a frame is used it may consist of two longitudinal \(\frac{1}{2} \) or \(\frac{1}{2} \) irons, to the underside of which the axle bearings are fastened, the longitudinal pieces being tied near the two ends by cross pieces. Longitudinal wooden bars, from \(\frac{3}{2} \) in. wide, and \(\frac{4}{2} \) in. to \(\frac{6}{2} \) in. or \(\frac{2}{2} \) in. or \(\frac{2}{2} \) in. or \(\frac{2}{2} \) in. at each end, and act as buffers. The following appear to be the chief distinctions between wood and iron as materials for the construction of pit corves. The introduction of sheet iron seems to have been made with a view of obtaining lighter and more durable corves than is afforded with wood. Owing probably to this, the majority of the first constructions were made too light, and under the rough treatment they were necessarily subjected to they soon became deformed. To stiffen them thicker sheets were used, or stiffening pieces were attached; it is found, however, that this makes the iron corves at least as heavy, and in many cases heavier, than those constructed of wood. Sheet iron lends itself more readily to curved or irregular forms, with which, as above remarked, a larger capacity can be obtained, and the curved forms are more economical in material, and allow of the mineral being filled tighter than where angular corners occur. Sheet iron is readily buileged when the corves are filled only with large coal and ores; t recommends sheet iron for the sides and wood for the bottom, and in many places in England it is preferred to make the sides of wood and the bottom of sheet iron, stiffened by thick pieces of wood on the under side. The bottom lasts longer when made of sheet iron, and when worn out only one single plate requires renewal, and the wooden sides are much more readily repaired than are those of sheet iron.

The wheels are generally made of cast iron, and in order to increase their hardness are sometimes cast in chilled moulds. Both wrought iron and steel wheels have been employed, and although they can be made much lighter and wear longer, have been generally found to be too expressive in the first cost. Cast iron wheels of found to be too expensive in the first cost. Cast iron wheels of small diameter, 10 in. to 13 in., are not very likely to break with ordinary usage, and if cast in chilled moulds do not wear away so rapidly. The weight of steel wheels is only about 60 per cent. that rapidly. The weight of steel wheels is only about to per cent. And rapidly. The weight of steel wheels is from two to three times as great. The form of the wheel varies, sometimes as a plain disc, with boss and rim. To lighten the wheel the disc has holes cast in it; generated the control of T section, are cast with the rest of the wheel. and rim. To lighten the wheel the disc has holes cast in it; generally the arms, of T section, are cast with the rest of the wheel. Occasionally the arms are made of wrought iron. The bosses of wheels which run loose on the axles are often cast on a chilled mould. Loose wheels are kept from coming off the axles by small cutters through the axle, or by means of a washer and split pin, or by means of a locked nut on the end of the axle. Fast wheels are fastened on to the axle by forming a flat on the axle and groove in the wheel, between which a taper key is driven, also by means of a pin or cotter passing through both boss and axle. Loose wheels may also be kept on the axle by turning a groove in the axle, into which a cotter driven through the boss one side of the axle fits. The diameter of the wheel on the tread circle varies from 8 or 10 to 17 in; 11 in. appears to be a very common size for English collieries. Von

* Being Notes on a Course of Lectures on Mining, delivered by Herr Bergath Dr. Vox GRODDECK, Director of the Royal Bergakademie, Clausthal, the Harz, North Germany.

Hauer gives the following dimensions for the ordinary limits of corf wheels. For loads varying from 10 to 24 cwts. the diameter varies lot to 20 in., the thickness of the rim from \(^1\) to \(^2\) in., the depth of the latter from \(^2\) to \(^2\) in., the depth of the latter from \(^2\) to \(^2\) in. the depth of the latter from \(^2\) to \(^2\) in. the depth of the latter from \(^2\) to \(^2\) in. The breadth of the lange from 0.6 to 1 in., the number of arms from four to eight, and the thickness of the latter from \(^2\) to \(^2\) in. The breadth of the lange from 0.6 to 1 in., the number of arms from four to eight, and the thickness of the latter from \(^2\) to \(^2\) in. The breadth of the lange from 0.6 to 1 in., the number of arms from four to eight, and the thickness of the latter from \(^2\) to \(^2\) in the breadth of the latter from \(^2\) to \(^2\) in the breadth of the lange from 0.6 to 1 in., the number of arms from four to eight, and the latter from 1 in the latter f

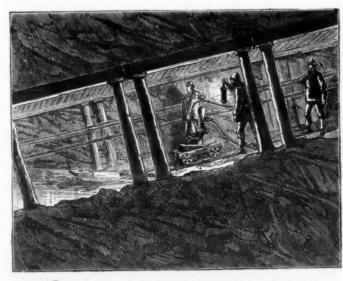
when the corf is at the screen turned upside down, and when local wheels are employed the oiling of the axies is effected when the corf wheels are employed the oiling of the axies is effected when the corf is turned on its side, the core being often run on to a special tipude as and will doubtless be welcome to them and to those interested in the search of the screen of the scr

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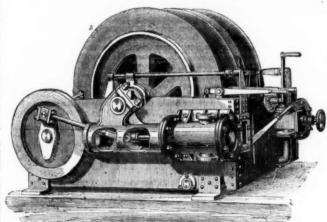
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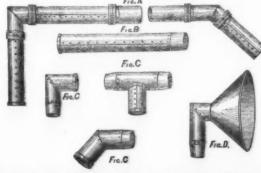


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Fig. C,—Different angle bends. Fig. D;—Is a hopper to receive air at top of shaft. Highfield Works, Ettingshall, near WOLVERHAMPTON.





GOLD AND SILVER MEDALS AWARDED for Steam-Engines & Boilers, also the Special Steam Pump, and Compound Pumping Engine.



TANGYE BROTHERS AND HOLMAN,

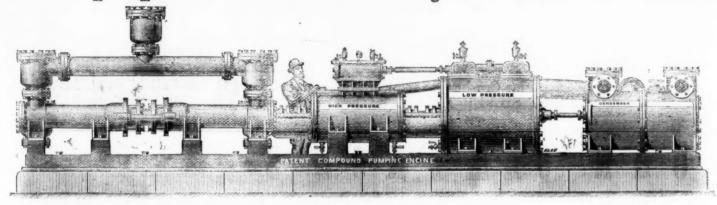
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TANGYE'S DIRECT-ACTING

COMPOUND PUMPING ENGINE.

For use in Mines, Water Works, Sewage Works,

And all purposes where Economy of Fuel is essential,



TANGYE'S DIRECT-ACTING COMPOUND PUMPING ENGINE, WITH AIR-PUMP CONDENSER.

TANGYE'S COMPOUND PUMPING ENGINE COMBINES SIMPLICITY, CERTAINTY OF ACTION, GREAT ECONOMY IN WORKING, COMPACTNESS, AND MODERATE FIRST COST.

This Engine will be found the most simple and economical appliance for Mine Draining, Town Water Supply, and General Purposes of Pumping ever introduced, and as regards Mine Draining, the first cost is very moderate compared with the method of raising water from great depths by a series of 40 or 50 fm. lifts. No costly engine-houses or massive foundations, no repetition of plunger lifts, ponderous connecting rods, or complication of pitwork, are required, while they allow a clear shaft for hauling purposes. In this Engine the economical advantages resulting from the expansion and condensation of steam are very simply and effectively obtained. The steam after leaving the high-pressure cylinder is received into and expanded in the low-pressure cylinder, and is thus used twice over before being exhausted into the condenser or atmosphere.

The following first-class Testimonials will bear evidence as to the efficiency and economy of the Engine:-

TESTIMONIALS OF TANGYE'S COMPOUND PUMPING ENGINE.

 $\frac{21}{36}$ Newcastle and Gateshead Water Company, Newcastle-on-Tyne, Oct. 20, 1879 $\overline{36} \times 10 \times 48''$ COMPOUND CONDENSING STEAM PUMPING ENGINE. Messrs. Tangye Brothers.

NG

Ditto

ditto

Messrs. Tangye Brothers.

Gentlemen,—In reply to your enquiry as to the efficiency of the two pairs o Compound Condensing Engines recently erected by you for this company at our Gateshead Pumping Station, I have great pleasure in informing you that they have far surpassed my expectations, being capable of pumping 50 per cent. more water than the quantity contracted for; and by a series of experiments I find they work as economically as any other engine of the compound type, and will compare favourably with any other class of pumping engine. By the simplicity of their arrangement and superior workmanship they require very little attendance and repairs, and the pumps are quite noiseless. A short time ago I had them tried upon air by suddenly shutting off the column, and found they did not run away, thus showing the perfect controlling or governing power of the Floyd's Improved Steam-moved Reversing Vale. I will thank you to forward the other twop a rs you have in hand for our Benwell Pumping Station.

(Signed)

Yours respectfully,
JOHN R FORSTER, Enginee 2.

ditto-with Air-pump Condenser...

The Chesterfield and Boythorpe Colliery Company (Limited),
Registered Office, Boythorpe, near Chesterfield, Oct. 1, 1879.

36 × 12" × 48" DOUBLE RAM COMPOUND CONDENSING STEAM PUMPING ENGINES

Messrs. Tangye Brothers.

Supplied in January, 1878.

Gentlemen,—Referring to the above, which we have now had working continuously night and day for the last 12 months, we are glad to say that it is giving us every satisfaction. It is fixed about 400 feet below the surface, the steam being taken down to it at pressure of 45 lbs. per square inch. We can work the pump without any difficulty at 28 strokes per minute—224 ft. piston speed. The pumping power is enormous. The vacuum in the condenser being from 11½ to 13 lbs. The pump is easily started, and works well and regularly. The amount of steam taken being much less than we anticipated. We consider the economy in working very satisfactory indeed. The desire for power and economy at the present day will certainly bring this pump into great requisition.

Yours truly,

(Signed M. STRAW, Manager

450

600

440

SIZES AND PARTICULARS.

Diameter of High-pressure Cylinder	14 4 24 3900 360 480	330 330 307 384	8	8 14 6 24 800 160 213 267	10 18 5 24 3100 360 480 600	10 18 6 24 8800 250 333 417	10 18 7 24 12,000 184 245 306	10 18 8 24 15,650 140 187 335	12 21 6 24 8,800 360 480 600	12 21 7 24 12,000 264 352 440	12 21 8 24 15,650 202 269 337	12 21 10 24 24,450 130 173 216	14 24 7 36 12,000 360 480 600	14 24 8 36 15,650 275 367 459	14 24 10 36 24,450 175 234 203	14 24 12 36 35,225 122 162 203
					CONT	INUEL).									
Diameter of High-pressure Cylinder	8 36	16 28 10 36 24,450	16 28 12 36 35,225	16 28 14 36 47,950	18 32 8 48 13,650	18 32 10 48 24,450	18 32 12 48 35,22	32 14 48	21 36 10 48 24,450	21 36 12 48 35,22	21 36 14 48 47,95	10 48	24 42 12 48 35,22	14 48	12 48	52 14 48
40 lbs. pressure per square inch in cylinder		230	160	118	456 603	292	202		397 528	276			360 480	264	-	

PRICES GIVEN ON RECEIPT OF REQUIREMENTS.

Any number of these Engines can be placed side by side, to work in conjunction or separately as desired, thereby multiplying the work one Pump to any extent.

267

384

600

THE GRAND PRIZE, THE TRIPLE AWARD.

Gold Medal, Silver Medal, and Honourable Mention awarded at the Paris Exhibition, in competition with all the World, FOR MY LATEST PATENTED STONE BREAKERS AND ORE CRUSHERS.

HIGHEST AWARDS FROM THE
INING INSTITUTE OF CORNWALL.

ORIGINAL PATENTEE AND SOLE MAKER OF BLAKE-MARSDEN

PULVERISERS, N E M I L L S MORTAR MILLS

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New Patent Reversible Jaws, in Sections with Patent Faced Backs.

NEW PATENT ADJUSTABLE TOGGLES.

OVER 2750 IN USE.

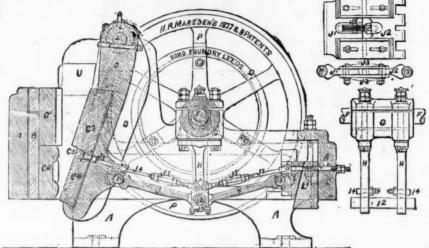
NEW PATENT WROUGHT-IRON CONNECTING ROD.

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NEW PATENT STEEL TOGGLE BEARINGS.

60PRIZE MEDALS.

FLY-WHEELS ON BOTH SIDES.



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DEAR SIR,—We have adopted your Stone Breakers at
many of the mines under our management, and are
pleased to be able to state that they have in all cases
given the greatest satisfaction.
We are, yours faithfully,
JOHN TAYLOR AND SONS.
H. R. Marsden, Esq.,

H. R. Marsden, Esq., Soho Foundry, Meadow-lane, Leeds.

St. John del Rey Mining Company (Limited).

A SAVING OF FIFTY-FIVE HANDS BY THE USE OF

A SAVING OF FIFTY-FIVE HANDS BY THE USE OF ONE MEDIUM-SIZED MACHINE.

BLAKE'S STONE BREAKER.—Statement made by the Managing Director of the St. John del Rey Mining Company. Mr. John Hockin, with regard to six months' practical working of Blake's Stone Breaker, affording facility for judging of the relative economy of machine and hand labour in this kind of work, and also of the cost of getting the Stone Breaker to work in difficult places. The price paid to Mr. Marsden for the machine referred to by Mr. Hockin was £180, and adding to this the cost of engine carriage, and fixing, the aggregate cost to the company of the Breaker in working order was £500. By this outlay the company is enabled to dispense with the labour of 55 people, the value of which is £600 per annum. The cost of working the machine could not be more than the wages of about five men (the machine requires but one man to feed it, so that the rest would be for engineer, fuel, oil, &c.), and allowing for interest on outlay and for renewal when necessary, the saving must be enormous.—Mining Journal.

ALL BEARINGS are renewable, and made of H.R.M.'s Patent Compound ANTIFRICTION METAL. CATALOGUES, TESTIMONIALS, &c.

H. R. MARSDEN, SOHO FOUNDRY, LEEDS.

Patentee of the New Patent Special Fine Crusher, for reducing Gold Quartz, Lead Ore, and all kinds of Materials to an impalpable powder. Awarded the FIRST SILVER MEDAL by the Cornwall Mining Institute. Particulars of results, &c., on application.



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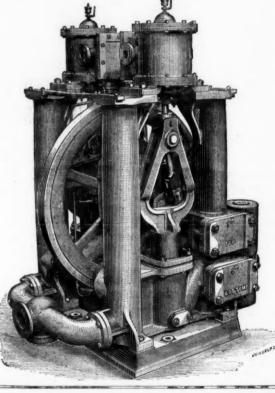
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